

Volume 6 Indexes

Compound Pharmacological Activity Index

This index lists all 3367 normalized pharmacological activity terms appeared in the encyclopedia in alphabetical order and a number code sequence of the related compounds follows the bold term immediately.

Authors would like to give some reminder to readers: (1), for normalization of pharmacological terms, please see “Abbreviations and Symbols” and “Cancer Cell Codes in Pharmacological Models” in Volume 1. (2), in the encyclopedia the *in vivo* anticancer activity data are defined as “antineoplastic” while the *in vitro* anticancer activity data are defined as “cytotoxic”. (3), the inactive experimental data in literatures are also collected. The formatted method of inactive data is putting word “inactive” after the activity term, for example “AChE inhibitor inactive”, “Cytotoxic inactive” and so on.

Acaricide 3502, 10680, 21360.

Acaricide (*Dermatophagoides pteronyssinus*) 18563, 18564, 18565, 18566.

ACAT inhibitor 9083.

ACE inhibitor 4225, 6757, 6921, 7978, 8095, 8155, 10887, 11350, 11642, 12916, 14261, 16011, 16773, 16774, 16776, 17895, 18358, 18371, 18411, 21392.

Acetylcholine antagonist 12083.

Acetylcholine transferase activator 893, 894, 896.

AChE inhibitor 408, 460, 904, 2220, 2233, 2813, 2814, 2815, 3516, 3881, 3882, 4236, 4237, 4241, 4292, 4516, 4532, 4542, 4568, 4862, 4863, 4877, 4996, 5098, 5255, 5256, 5722, 5739, 5828, 6159, 6842, 7038, 7128, 7177, 7381, 7381, 7414, 7835, 7928, 8009, 8083, 9200, 9201, 9206, 9946, 10197, 10258, 10260, 11002, 11004, 11291, 11462, 12351, 12352, 12834, 12835, 13241, 13571, 14078, 14449, 15322, 15323, 15647, 15718, 15800, 16117, 16988, 17035, 19354, 19355, 19356, 20440, 20511, 20685, 20686, 20891, 21374, 22195, 22700, 22774, 22781.

AChE inhibitor inactive 7082, 7210, 7213, 19696.

Acidic component of common plants 18421.

Activates basophylic cells 21279.

Activates lymph node 3412.

Activates mastocytes 21279.

Activates nerve 4873.

Activates neutrophile granulocytes 21279.

Activates plasminogen 17194.

Acts against hepatic adipose infiltration 2318, 13823.

Acts against hepatic adipose infiltration, removes fat from liver of fatty

infiltration 19087.

Acute toxicity 2247, 3712, 13794.

Adenosine A₁ receptor partial agonist, the first nonnucleoside adenosine receptor agonist not structurally related to adenosine 8754.

Adenyl cyclase inhibitor 12420.

Adrenal cortex hormoneoid 8841, 8846.

Adrenergic β -receptor blocker 18180.

Adrenergic antagonist 1048, 7024, 11344, 16439.

Adrenaline α_1 - and α_2 -receptor agonist 2303.

Adrenergic α_1 -receptor antagonist 1041.

Adrenergic α -receptor blocker 6517, 7243, 22818, 22820.

Adrenergic α - and β -receptor agonist 6815, 18024.

Adrenergic receptor blocker 7252, 19386.

Affinity to dopamine-D₂-receptor 5308.

Affinity to nAChR 2484, 2621, 2622, 4868, 4869, 7842, 7843.

Against African sleeping sickness 1141, 1145, 1147.

Against neurovaccine 20490.

Aids in generation of neuroglia 1853.

Alarm pheromone of insect 15688.

Aldoketomutase I inhibitor 2102.

Aldose reductase inhibitor 61, 85, 466, 491, 497, 580, 664, 1476, 1491, 1492, 1492, 1499, 1502, 1623, 1928, 2044, 2380, 2920, 2921, 3600, 3602, 3609, 3610, 3674, 3742, 3744, 3745, 4627, 4628, 6031, 6453, 6643, 6769, 7278, 7283, 7284, 7802, 8925, 9331, 9456, 9458, 10351, 10887, 11198, 11505, 11642, 11666, 11703, 11897, 12020, 12083, 12714, 12987, 13137, 13145, 13149, 13315, 13502, 14224, 14971, 15038, 15147, 15148, 15149, 15150, 15151, 15170, 15184, 15286, 15319, 16726, 16729, 16851, 16931, 16933, 17097, 17409, 17415,

- 18004, 18005, 18317, 18317, 18345, 18351, 18368, 18378, 18411, 19087, 19087, 19201, 19618, 20102, 21053, 21097, 21362.
- Aldose reductase inhibitor inactive** 1621, 19425, 19426, 20556.
- Algicidal (*Oscillatoria perornata*)** 8985, 19077, 19078.
- Algicidal (*Raphidocelis subcapitata*)** 7049, 7161, 12409, 14405, 14408.
- Algicidal (*Selenastrum capricornutum*)** 8985, 19077, 19078.
- Alkaline phosphatase inhibitor** 2208, 3063.
- Alkaline phosphatase promoter** 2331.
- Allelopathil agent, produced from walnut tree *Juglans regia*** 11903.
- Allergen** 62, 2890, 3611, 9700, 14971, 16440, 16598, 17828, 17853, 18679, 22104, 22105.
- Alluring action (male gamete of *Allomyces*)** 19976.
- γ -Aminobutyric acid antagonist** 642.
- AMV-reverse transcriptase inhibitor** 11703, 21913.
- Amyloglucosidase inhibitor** 2792, 7437.
- An essential amino acid for children** 9569.
- Analgesic** 304, 554, 669, 1012, 1021, 1094, 1097, 1178, 1283, 1287, 1667, 2214, 2247, 2303, 2550, 2737, 2738, 2739, 2887, 3141, 3152, 3204, 3218, 3498, 3689, 3693, 3712, 3885, 3907, 3935, 3937, 4080, 4103, 4550, 4645, 4685, 4741, 4745, 4771, 4993, 5108, 5358, 5359, 5417, 6529, 6708, 6767, 7441, 7481, 7665, 7707, 7714, 7800, 7996, 8083, 8150, 8151, 8156, 8170, 8257, 8273, 8276, 8307, 8428, 8965, 9187, 9238, 9661, 10875, 10887, 11259, 11260, 11580, 11734, 11741, 12510, 12608, 12916, 12916, 13606, 13630, 13774, 13776, 13794, 14184, 14896, 14897, 14981, 15449, 15843, 16451, 16525, 16532, 16555, 16803, 16966, 17042, 17958, 19081, 19184, 19196, 19198, 19200, 19473, 19540, 19922, 19955, 20002, 20141, 20307, 20324, 20444, 20509, 20569, 20578, 21077, 21206, 21234, 21245, 21292, 21366, 21887, 21955, 22384, 22562, 22602, 22818, 22938, 23004.
- Androgen** 1169, 21022.
- Anesthetic** 2113, 2716, 3278, 4353, 5199, 6745, 9553, 13774, 13796, 13797, 13798, 14981, 21292, 23003.
- Anesthetic antagonist** 3079.
- Angiogenesis enhancer** 19202.
- Angiogenesis inhibitor** 2208, 5047, 5910, 11505, 13391, 16183, 17717, 20900, 20901, 21709.
- Angiogenesis inhibitor inactive** 6162, 9564, 10751, 12448, 21856.
- Anorexic** 3327, 15789.
- Antagonist to body temperature reduction caused by 5-HT** 19846.
- Antagonist to muscle rigidity** 20732.
- Antagonizes antibacterial action of paraxin** 3118.
- Antemetic** 8395, 19846, 21059, 23003.
- Anthelmintic** 139, 759, 762, 834, 936, 1319, 1475, 1654, 1658, 1779, 1798, 1842, 1895, 1897, 2050, 2550, 3231, 3598, 3760, 3767, 3841, 4234, 4317, 4329, 5251, 5502, 5648, 6460, 6550, 6767, 7481, 7798, 7809, 8312, 9288, 9704, 11203, 12221, 13559, 14728, 15131, 15485, 15486, 15882, 16085, 16584, 16770, 16789, 18094, 18299, 18452, 18546, 18940, 19101, 19313, 19314, 20240, 21350, 21360, 21448, 22332, 22382.
- Anthelmintic (amoeba)** 14728.
- Anthelmintic (ants)** 18293.
- Anthelmintic (ascarid)** 762, 8312, 11203, 16770, 18452, 21448.
- Anthelmintic (*Ascaris vermicularis*)** 18299.
- Anthelmintic (*Caenorhabditis elegans*)** 1319, 20240.
- Anthelmintic (dwarf tapeworm)** 6460.
- Anthelmintic (hookworm)** 1895, 6460.
- Anthelmintic (liver flukes)** 16789.
- Anthelmintic (tapeworm)** 762, 1654, 1895, 6767, 9704, 16789.
- Anthelmintic (termites)** 5188, 6015, 9857, 14144.
- Anthelmintic (*Trypanosoma cruzi*)** 16085.
- Antiacetylcholine activity** 17007.
- Anti-acne agent** 2056.
- Anti-addictive** 4080.
- Anti-adrenaline** 5707, 11851, 18623, 22921.
- Antiallergic** 892, 893, 983, 1836, 1837, 1838, 2102, 2106, 2687, 3412, 4097, 4417, 5415, 5430, 5722, 6105, 6853, 7054, 7924, 8095, 8297, 8841, 8846, 11095, 12683, 12766, 12767, 12891, 13137, 14995, 16268, 16269, 16525, 18643, 18790, 21206, 21356, 21993, 21994, 22350.
- Antiallergic and anti-inflammatory** 23, 3602.
- Antiallergic β -Hexosaminidase inhibitor** 2165, 2456, 2508, 5905, 9099, 9100, 9102, 9846, 9848, 13909, 13910, 14154.
- Antiamoebic** 576, 774, 777, 2615, 2660, 2665, 2666, 2667, 2668, 2670, 2671, 2674, 2684, 3218, 3400, 5436, 6772, 8047, 8509, 11203, 12347, 17862, 18095, 18627, 19414, 19900, 22098, 22146.
- Anti-amnesic** 4568.
- Anti-androgenic** 4039, 4040, 4041, 4042, 7521, 10960, 12490, 12491, 12493, 12496, 16358.
- Anti-androgenic inactive** 16498.
- Antianemic** 11882.
- Anti-apoptosis** 251, 580, 1181, 2547, 5314, 18192.
- Antiasthmatic** 663, 957, 1162, 1628, 1840, 1903, 2797, 3235, 3237, 3689, 5067, 5763, 6815, 7481, 7924, 8095, 8404, 9646, 11507, 12438, 14395, 15370, 17456, 17472, 17983, 18219, 18317, 19540, 20077, 20137, 20254, 20992, 20995, 21312.
- Anti-atropine** 9224.
- Antibacterial inactive summary index** 569, 1215, 1217, 1222, 1617, 1635, 1636, 1637, 1646, 1647, 1764, 2590, 2624, 2945, 2990, 2991, 2998, 3004, 3908, 4035, 4128, 4891, 4985, 5925, 5926, 6065, 6809, 6810, 7044, 7313, 7315, 7316, 8576, 8579, 8580, 9223, 9225, 9518, 9857, 10629, 11071, 11078, 11079, 11086, 11258, 11485, 11570, 12310, 12511, 12572, 12615, 12616, 13259, 13637, 14729, 14731, 14789, 14915, 15118, 15583, 15584, 15585, 15586, 15588, 15589, 15590, 15591, 15592, 15916, 18673, 19308, 19349, 19350, 19428, 19429, 19589, 19591, 19594, 19595, 19999, 20377, 22634, 22777, 22962.
- Antibacterial inactive, 13 strains of methicillin-resistant *Staphylococcus aureus* (MRSA)** 7313, 7315, 7316.
- Antibacterial inactive, *Alteromonas* sp.** 2624, 12616.
- Antibacterial inactive, *Azobacter beijerinckii*** 11485, 12616.
- Antibacterial inactive, *Bacillus brevis*** 8576, 8579, 8580.
- Antibacterial inactive, *Bacillus megaterium*** 15518.
- Antibacterial inactive, *Bacillus subtilis*** 1646, 1647, 1764, 3004, 8576, 8579, 8580, 10629, 13259, 19428, 19429.
- Antibacterial inactive, *Chromobacterium violaceum*** 11258.
- Antibacterial inactive, *Clostridium fallax*** 11570, 12615.
- Antibacterial inactive, *Clostridium novyi*** 11570, 12615.
- Antibacterial inactive, *Clostridium sordellii*** 11570, 12615.

Antibacterial inactive, *Enterobacter aerogenes* 11570, 12615.
Antibacterial inactive, *Enterobacter cloacae* 569, 14789.
Antibacterial inactive, *Enterobacter dissolvens* 8576, 8579, 8580.
Antibacterial inactive, *Escherichia coli* 569, 1635, 1636, 1637, 2590, 2945, 2990, 2991, 2998, 3004, 6065, 9857, 10629, 11071, 11078, 11079, 11086, 12615, 13259, 13637, 14789, 19589, 19591, 19594, 19595, 22634.
Antibacterial inactive, gram-negative bacteria 1215, 1217, 1222.
Antibacterial inactive, gram-positive bacteria 1215, 1217, 1222.
Antibacterial inactive, *Halobacterium* sp. 2624, 11485, 12572, 12616.
Antibacterial inactive, *Halococcus* sp. 2624, 11485, 12572, 12616.
Antibacterial inactive, *Helicobacter pylori* NCTC11637 strain 4035.
Antibacterial inactive, *Helicobacter pylori* NCTC11916 strain 4035.
Antibacterial inactive, *Helicobacter pylori* OCO1 strain 4035.
Antibacterial inactive, *Klebsiella aerogenes* 11258.
Antibacterial inactive, *Klebsiella pneumoniae* 569, 14789, 19589, 19591, 19594, 19595, 22634.
Antibacterial inactive, MDR *Staphylococcus aureus* RN4220 strain 4985, 9518, 15916.
Antibacterial inactive, MDR *Staphylococcus aureus* SA-1199-B strain 4985, 9518, 15916.
Antibacterial inactive, MDR *Staphylococcus aureus* XU212 strain 4985, 9518, 15916.
Antibacterial inactive, methicillin-resistant *Staphylococcus aureus* MRSA 5925, 5926, 12310, 15583, 15584, 15585, 15586, 15588, 15589, 15590, 15591, 15592.
Antibacterial inactive, methicillin-sensitive *Staphylococcus aureus* MSSA 12310.
Antibacterial inactive, *Micrococcus luteus* 8576, 19349, 19350, 19589, 19591, 19594, 19595, 22634.
Antibacterial inactive, *Mycobacterium smegmatis* 1646, 1647.
Antibacterial inactive, *Mycobacterium tuberculosis* 6809, 6810, 14729, 14731, 14915, 15118, 19999, 20377, 22777.
Antibacterial inactive, *Pseudomonas aeruginosa* 569, 1635, 1636, 1637, 14789.
Antibacterial inactive, *Pseudomonas aeruginosa* 569, 1635, 1636, 1637, 14789.
Antibacterial inactive, *Salmonella setubal* 19589, 19591, 19594, 19595, 22634.
Antibacterial inactive, *Serratia marcescens* 14789.
Antibacterial inactive, *Shigella flexneri* 11570, 12615.
Antibacterial inactive, *Staphylococcus aureus* 569, 1635, 1636, 1637, 1646, 1647, 1764, 3004, 9857, 10629, 11086, 13259, 19349, 19350, 19428, 19429, 19589, 19591, 19594, 19595, 22634.
Antibacterial inactive, *Staphylococcus epidermidis* 569, 19589, 19591, 19594, 19595, 22634.
Antibacterial inactive, *Staphylococcus sanguis* 1635, 1636, 1637.
Antibacterial inactive, various tested bacteria 9223, 9225.
Antibacterial inactive, *Vibrio anguillarum* 2590, 2945, 2990, 2991, 2998, 9857, 11071, 11078, 11079, 11086.
Antibacterial inactive, *Vibrio cholerae* 11570, 12615.
Antibacterial inactive, *Vibrio vulnificus* 11570, 12615.
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- 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 15335, 15337, 15342, 15370, 15412, 15436, 15489, 15506, 15519, 15561, 15587, 15633, 15652, 15715, 15728, 15737, 15800, 15849, 15858, 15859, 15860, 15869, 15870, 15872, 15881, 15885, 15888, 15910, 15939, 16050, 16079, 16080, 16119, 16183, 16261, 16264, 16268, 16269, 16275, 16359, 16429, 16439, 16442, 16488, 16532, 16545, 16555, 16597, 16598, 16600, 16666, 16675, 16711, 16741, 16742, 16743, 16744, 16745, 16747, 16747, 16748, 16748, 16749, 16754, 16770, 16799, 16800, 16802, 16816, 16912, 16913, 16914, 16915, 16966, 16978, 17009, 17018, 17019, 17028, 17047, 17048, 17049, 17168, 17247, 17272, 17283, 17361, 17362, 17363, 17371, 17375, 17403, 17430, 17431, 17432, 17456, 17486, 17487, 17488, 17489, 17491, 17528, 17567, 17568, 17570, 17571, 17602, 17696, 17777, 17859, 17861, 17862, 17870, 17924, 17926, 17983, 18011, 18071, 18086, 18097, 18102, 18212, 18213, 18214, 18219, 18220, 18221, 18269, 18270, 18305, 18317, 18376, 18411, 18547, 18643, 18674, 18679, 18759, 18831, 18849, 18857, 18859, 18868, 18972, 19078, 19148, 19174, 19257, 19259, 19299, 19306, 19307, 19312, 19452, 19468, 19469, 19471, 19511, 19533, 19542, 19546, 19547, 19548, 19549, 19550, 19551, 19552, 19553, 19554, 19555, 19556, 19557, 19558, 19559, 19560, 19561, 19574, 19575, 19590, 19592, 19593, 19614, 19707, 19777, 19819, 19827, 19904, 19905, 19906, 19907, 19912, 19933, 19934, 19935, 19985, 20002, 20018, 20019, 20044, 20061, 20093, 20135, 20137, 20150, 20166, 20167, 20307, 20390, 20444, 20489, 20511, 20566, 20575, 20578, 20670, 20679, 20680, 20681, 20685, 20686, 20687, 20697, 20699, 20700, 20701, 20702, 20717, 20732, 20968, 20992, 21018, 21022, 21034, 21052, 21055, 21132, 21206, 21235, 21236, 21237, 21239, 21251, 21253, 21257, 21260, 21261, 21266, 21268, 21269, 21270, 21328, 21333, 21356, 21360, 21362, 21486, 21503, 21577, 21589, 21727, 21765, 21776, 21830, 21866, 22045, 22059, 22080, 22190, 22191, 22195, 22239, 22270, 22270, 22270, 22282, 22321, 22332, 22380, 22420, 22496, 22498, 22499, 22592, 22593, 22594, 22596, 22667, 22667, 22700, 22704, 22755, 22759, 22774, 22781, 22815, 22818, 22965, 22970, 22972, 23002, 23014.
- Antibacterial, α -hemolytic streptococcus** 17602.
- Antibacterial, 10 strains of methicillin-resistant *Staphylococcus aureus* (MRSA)** 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, 11 kinds of pathogenic bacteria** 7924.
- Antibacterial, 12 strains of molds** 16555.
- Antibacterial, 13 strains of methicillin-resistant *Staphylococcus aureus* (MRSA)** 7312, 7314.
- Antibacterial, 15 strains of dysentery** 13606.
- Antibacterial, 18 strains of methicillin-resistant *Staphylococcus aureus* (MRSA)** 22593, 5279, 22594, 22592.
- Antibacterial, 30 hmn pathogenic bacteria, in which 8/30 effective** 16966.
- Antibacterial, 30 kinds of pathogenic bacteria** 20575.
- Antibacterial, 40 types of bacteria** 22499.
- Antibacterial, 40 types of bacteria and fungi** 21055.
- Antibacterial, 8 strains of methicillin-resistant *Staphylococcus aureus* (MRSA)** 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, acid-fast bacteria** 7323, 9631, 14454.
- Antibacterial, aflatoxin B₁** 17028.
- Antibacterial, *Alcaligenes aquamarinus*** 2624, 12616.
- Antibacterial, *Alteromonas* sp.** 11485, 12572.
- Antibacterial, antipyretic** 15337.
- Antibacterial, *Aspergillus niger*** 1244, 1250, 1252, 2844, 5550, 15298, 15370, 20390.
- Antibacterial, *Azomonas agilis*** 2624, 11485, 12572, 12616.
- Antibacterial, *Azotobacter beijerinckii*** 2624, 12572.
- Antibacterial, *Babesia gibsoni*** 14342, 14340, 14341, 14346.
- Antibacterial, *Bacillus anthracis*** 967, 9678, 18759.
- Antibacterial, *Bacillus brevis*** 10732.
- Antibacterial, *Bacillus cereus*** 143, 207, 218, 589, 755, 756, 2591, 2592, 2593, 3368, 6049, 6065, 7707, 7756, 7767, 9678, 9924, 10159, 10567, 11262, 11263, 11264, 14789, 17862, 21830, 22818.
- Antibacterial, *Bacillus cereus* ATCC11778 strain** 10484, 14592.
- Antibacterial, *Bacillus coagulans*** 143, 9924.
- Antibacterial, *Bacillus coli*** 51, 123, 515, 589, 663, 957, 1016, 1179, 1244, 1250, 1252, 2168, 2244, 2283, 2539, 2624, 2844, 3148, 3157, 3158, 3186, 3452, 3962, 4140, 4203, 4241, 4243, 4645, 4840, 5161, 5235, 5272, 5273, 5540, 5541, 5542, 5550, 5682, 5763, 6427, 6429, 6430, 6735, 6776, 6973, 7205, 7305, 7307, 7767, 7883, 8136, 8278, 8456, 8968, 9596, 9788, 10104, 10159, 10567, 10733, 10819, 11259, 11260, 11392, 11434, 11485, 11570, 11777, 11778, 11779, 12537, 12572, 12616, 12957, 12958, 13107, 13239, 13398, 13874, 13876, 14255, 14815, 15170, 15279, 15286, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 15342, 15885, 16442, 16532, 16545, 16555, 17018, 17019, 17048, 17247, 17528, 18071, 18220, 18221, 18547, 19590, 19592, 19593, 19707, 19819, 20018, 20019, 20390, 20686, 20687, 20697, 20699, 20700, 20701, 20702, 21251, 21257, 21269, 21270, 22045, 22195, 22270, 22282, 22496, 22667.
- Antibacterial, *Bacillus coli* ATCC11775 strain** 10484, 14592.
- Antibacterial, *Bacillus coli* ATCC25922 strain** 3689, 4135.
- Antibacterial, *Bacillus coli* NIHJ JC-2 strain** 7792, 11811, 12321, 12322.
- Antibacterial, *Bacillus coli* O157:H7 ATCC43894 strain** 3689, 4135.
- Antibacterial, *Bacillus diphtheriae*** 515, 967, 1178, 1244, 1250, 1252, 2844, 3157, 3158, 3186, 4832, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 6973, 9678, 9788, 10733, 13874, 13876, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 18759, 20390, 22282, 22496.
- Antibacterial, *Bacillus dysenteriae*** 967, 6776, 7441, 7942, 8095, 8968, 13137, 14971, 15170, 15279, 15286, 16555, 17247, 18759, 19574, 19575, 19819, 20444, 21251, 21269, 21270.
- Antibacterial, *Bacillus fusiformis*** 8405.
- Antibacterial, *Bacillus globisporus*** 15910, 18097.
- Antibacterial, *Bacillus influenzae*** 3615, 6776.
- Antibacterial, *Lactobacillus* spp.** 16080.
- Antibacterial, *Bacillus lactis*** 515, 1244, 1250, 1252, 2844, 3157, 3158, 3186, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 6973, 9788, 10733, 13874, 13876, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 20390, 22496.

- Antibacterial, *Bacillus megaterium* 12501, 15519.
- Antibacterial, *Bacillus mycoides* 14829, 15039, 21251.
- Antibacterial, *Bacillus paratyphosus* 967, 6776, 6921, 18759.
- Antibacterial, *Bacillus paratyphosus* A 8095.
- Antibacterial, *Bacillus pertussis* 22282.
- Antibacterial, *Bacillus pumilus* 14789.
- Antibacterial, *Bacillus pyocyaneus* 3148, 4645, 5682, 5763, 6776, 8095, 8334, 10351, 10819, 11736, 13137, 15910, 17247, 17528, 17696, 19148, 19819, 20444, 21251, 21269, 21270, 22045.
- Antibacterial, *Bacillus pyocyaneus* ATCC27853 strain 3689, 4135, 20686, 20687.
- Antibacterial, *Bacillus septicus* 21251, 21269, 21270.
- Antibacterial, *Bacillus sonne* 16770.
- Antibacterial, *Bacillus* sp. 18868, 22059.
- Antibacterial, *Bacillus sphaericus* 99, 6263, 10748, 11258, 16275, 16741, 16742, 16743, 16744, 16745, 18212, 18213.
- Antibacterial, *Bacillus subtilis* 50, 51, 53, 99, 123, 143, 207, 218, 515, 901, 957, 967, 1244, 1250, 1252, 1645, 1648, 2168, 2244, 2283, 2539, 2584, 2844, 3004, 3157, 3186, 3463, 3472, 3474, 4048, 4243, 4243, 4422, 4604, 4840, 4923, 5214, 5235, 5272, 5273, 5522, 5540, 5541, 5542, 5550, 5747, 5959, 6238, 6263, 6303, 6361, 6427, 6429, 6430, 6776, 6973, 7178, 7205, 7305, 7306, 7307, 7707, 7756, 7764, 7767, 7883, 8136, 8278, 8456, 8672, 8833, 9288, 9321, 9322, 9788, 9924, 10104, 10732, 10733, 10748, 11056, 11258, 11269, 11321, 11392, 11434, 11751, 11777, 11778, 11779, 12334, 12380, 12389, 12766, 12767, 12771, 13107, 13109, 13137, 13195, 13196, 13398, 13637, 13874, 13876, 14170, 14680, 14789, 14829, 15039, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 15342, 15489, 15506, 15561, 15939, 16275, 16359, 16429, 16532, 16545, 16741, 16742, 16743, 16744, 16745, 16747, 16748, 16749, 16799, 16802, 17018, 17019, 17048, 17371, 17403, 17430, 17431, 17432, 17486, 17487, 17488, 17489, 17491, 18071, 18212, 18213, 18214, 18759, 19257, 19259, 19574, 19575, 19707, 20093, 20390, 20697, 20699, 20700, 20701, 20702, 20968, 21022, 21034, 22059, 22195, 22239, 22270, 22282, 22496, 22667.
- Antibacterial, *Bacillus subtilis* 6633 strain 3158.
- Antibacterial, *Bacillus subtilis* ATCC1633 strain 13607.
- Antibacterial, *Bacillus subtilis* H17 strain 15858, 15859, 15860.
- Antibacterial, *Bacillus subtilis* IFO3134 strain 7792, 11811, 12321, 12322.
- Antibacterial, *Bacillus subtilis* M45 strain 15858, 15859, 15860.
- Antibacterial, *Bacillus termo* 515, 1244, 1250, 1252, 2844, 3157, 3158, 3186, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 5763, 6973, 7521, 9788, 10733, 13137, 13874, 13876, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 16770, 20390, 20444, 21251, 21269, 21270, 22282, 22496.
- Antibacterial, *Bacillus termo* I 12537, 20578.
- Antibacterial, *Bacillus thuringiensis* 20992.
- Antibacterial, *Bacillus typhosus* 3452, 3767, 3768, 6921, 8095, 13137, 14971, 15170, 15279, 15286, 16770, 18270, 18759, 19819, 20444, 22815.
- Antibacterial, bacteria on skin surface 8081.
- Antibacterial, broad spectrum 4460, 11851, 11903, 16261, 22774.
- Antibacterial, broad spectrum and low toxicity 18270.
- Antibacterial, *Chromobacterium violaceum* 99, 6263, 6735, 10748, 11570, 12615, 16275, 16741, 16742, 16743, 16744, 16745, 18212, 18213.
- Antibacterial, *Citrobacter freundii* ATCC8090 strain 3689, 4135.
- Antibacterial, *Clostridium cellobioparum* 6735, 11570, 12615.
- Antibacterial, *Clostridium fallax* 6735.
- Antibacterial, *Clostridium novyi* 6735.
- Antibacterial, *Clostridium sordellii* 6735.
- Antibacterial, *Coccus catarrhal* 3615, 6776, 20444, 13137.
- Antibacterial, *Coccus* spp. 11747.
- Antibacterial, *Cochliobolus miyabeanus* 15370.
- Antibacterial, cooperates with berberine to inhibit *Staphylococcus aureus* 8841.
- Antibacterial, *Corynebacterium accolens* 3490, 4055, 6757, 6758, 8095, 13428, 13429.
- Antibacterial, *Corynebacterium acnes* 10, 10351.
- Antibacterial, *Corynebacterium betae* 5894, 6032.
- Antibacterial, *Corynebacterium fascians* 5894, 6032, 18219.
- Antibacterial, *Corynebacterium hoffmanii* 16799, 16800, 16802.
- Antibacterial, *Cryptococcus neoformans* 10565.
- Antibacterial, *Cryptococcus neoformans* ATCC90112 strain 10484, 14592.
- Antibacterial, cytochrome C reductase inhibitor 7015.
- Antibacterial, *Diplococcus catarrhal* 12843.
- Antibacterial, *Diplococcus pneumoniae* 3158, 3615, 5763, 9678, 12334, 12843, 13137, 14454, 14531, 15337, 15561, 17283, 17456, 17862, 20061, 22282.
- Antibacterial, *Enterobacter cloacae* 5613, 7278, 8081, 8959, 13651, 13652.
- Antibacterial, *Enterobacter cloacae* ATCC23350 strain 3689, 4135.
- Antibacterial, *Enterococci* sp. (VRE) 9393.
- Antibacterial, *Enterococcus faecalis* 5747, 7764.
- Antibacterial, *Enterococcus faecalis* 11268 strain 13811.
- Antibacterial, *Enterococcus faecalis* 1528(vanA) strain 2680, 2681, 2682.
- Antibacterial, *Enterococcus faecalis* 18292 strain 6018, 6020, 13469, 13811.
- Antibacterial, *Enterococcus faecalis* 19250 strain 6018, 6020, 13469, 13811.
- Antibacterial, *Enterococcus faecalis* ATCC21212 strain 7792, 11811, 12321, 12322.
- Antibacterial, *Enterococcus faecalis* ATCC29212 strain 10484, 14592.
- Antibacterial, *Enterococcus faecalis* ATCC33186 strain 3689, 4135.
- Antibacterial, *Enterococcus faecalis* JCM7783 strain (VSE) 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus faecalis* JU1782 (VRE, VanB) 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus faecalis* JU1856 (VRE, VanA) 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.

- Antibacterial, *Enterococcus faecium* 5 13811.
- Antibacterial, *Enterococcus faecium* JCM5804 (VSE) 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus faecium* JU1777 (VRE, VanB) 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus faecium* JU1858 (VRE, VanA) 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus gallinarum* CDC-42 strain 3689, 4135.
- Antibacterial, *Enterococcus gallinarum* JU2786 (VRE, VanC) 3453.
- Antibacterial, *Enterococcus gallinarum* JU2786 strain (VRE, VanC) 847, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Enterococcus* sp. 18270, 22815.
- Antibacterial, *Enteromorpha cloacae* 15170, 15184, 18305, 18411, 18679, 18857, 18859.
- Antibacterial, *Erwinia amylovora* 2624, 11485, 12572, 12616.
- Antibacterial, *Erwinia carotovora* 3490, 4055, 6757, 6758, 8095, 13428, 13429.
- Antibacterial, *Erwinia carotovora* var. *carotovora* 18219.
- Antibacterial, *Escherichia coli* 901, 1178, 4471, 5522, 5700, 5747, 5959, 6238, 7521, 7764, 13195, 13196, 13651, 13652, 14170, 18219, 20093, 21022, 21034.
- Antibacterial, *Escherichia coli* SG458 strain 2680, 2681, 2682.
- Antibacterial, *Escherichia* sp. 20578.
- Antibacterial, *Flavobacterium helmiphilum* 6735, 11570, 12615.
- Antibacterial, *Fusobacterium nucleatum* 2303, 3055, 3057, 3058, 6366, 9702, 11348, 14567, 19985, 21356.
- Antibacterial, gram-negative bacteria 675, 2294, 3745, 4837, 7323, 9631, 10751, 10883, 14083, 14454, 14728, 16183, 17009, 17489, 17570, 17571, 17870, 22270.
- Antibacterial, gram-positive bacteria 675, 2294, 3588, 3633, 3745, 4837, 5789, 7221, 7323, 9570, 9869, 10751, 10883, 11092, 11455, 13109, 14083, 14454, 14728, 15039, 15652, 16183, 17009, 17489, 17570, 17571, 17870, 19468, 22239, 22270, 22321, 22596, 22704, 23014.
- Antibacterial, gram-positive bacteria (inactive for gram-negative bacteria) 7015.
- Antibacterial, *Helicobacter pylori* NCTC11637 strain 13643, 16079, 21765.
- Antibacterial, *Helicobacter pylori* NCTC11916 strain 13643, 16079, 21765.
- Antibacterial, *Helicobacter pylori* OCO1 strain 13643, 16079, 21765.
- Antibacterial, hemolytic streptococcus 3452, 8967, 10736, 20686, 20687, 22282.
- Antibacterial, hemolytic β -Streptococcus 3158, 11259, 11260, 15337, 15561.
- Antibacterial, *Hemophilus influenzae* 5763.
- Antibacterial, hmn *Mycobacterium tuberculosis* 22282.
- Antibacterial, hmn *Mycobacterium tuberculosis* H37Rv strain 4292, 5722, 6605, 10736.
- Antibacterial, enhances antibacterial action of phage by over 100 times 22774.
- Antibacterial, inhibits colony formation of *X. campestris* pv. *oryzae* 7121, 7154, 7174, 7181, 7185.
- Antibacterial, *Klebsiella aerogenes* 99, 6263, 10748, 16275, 16741, 16742, 16743, 16744, 16745, 18212, 18213.
- Antibacterial, *Klebsiella pneumoniae* 3962, 7521, 8548, 13651, 13652, 14454, 14815, 15885, 16799, 16800, 17528, 19593, 20018, 20019, 21251, 21253, 21257, 21269, 21270.
- Antibacterial, *Klebsiella pneumoniae* 515, 1244, 1250, 1252, 2844, 3157, 3158, 3186, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 6973, 9788, 10733, 13874, 13876, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 20390, 22496.
- Antibacterial, *Klebsiella pneumoniae* ATCC13883 strain 3689, 4135.
- Antibacterial, *Klebsiella pneumoniae* NCTC9633 strain 10484, 14592.
- Antibacterial, lactic acid bacteria 19819.
- Antibacterial, *Listeria monocytogenes* 5747, 7764.
- Antibacterial, main effective component of *Euphorbia humifusa* (DI JIN CAO) 22195.
- Antibacterial, *Micrococcus epidermidis* 2081, 4362, 4363.
- Antibacterial, *Micrococcus kristinae* 14789.
- Antibacterial, *Micrococcus luteus* 143, 2081, 3368, 3472, 3473, 3962, 9924, 14815, 15506, 17430, 17431, 17432, 17862, 18269, 19592, 19593, 19614, 21830.
- Antibacterial, *Micrococcus luteus* ATCC10240 strain 2680, 2681, 2682.
- Antibacterial, *Micrococcus lysodeikticus* 53, 4243.
- Antibacterial, *Micrococcus lysodicklycus* 16799, 16800.
- Antibacterial, *Micrococcus* sp. 22818.
- Antibacterial, *Microsporum* sp. 2081.
- Antibacterial, microzyme 12771, 22270.
- Antibacterial, *Mucor mucedo* 50.
- Antibacterial, mutational *Streptococcus* 8833.
- Antibacterial, *Mycobacterium intracellulare* 19174.
- Antibacterial, *Mycobacterium leprae* 1293, 3485, 8955, 9697.
- Antibacterial, *Mycobacterium smegmatis* 1645, 1648, 3463, 4923, 5100, 5572, 6752, 8493, 8548, 9441, 9597, 11321, 11751, 12380, 12389, 15881, 15885, 16439, 16816, 17049, 18102, 18831, 19174, 21235, 21237, 21251, 21257, 21260, 21261, 21266, 21268, 21269, 21270.
- Antibacterial, *Mycobacterium smegmatis* ATCC607 strain 8490, 8499, 9557, 9558, 10149.
- Antibacterial, *Mycobacterium* sp. 1769, 14028, 14029, 14603, 16488, 17924, 17926, 21239, 21253.
- Antibacterial, *Mycobacterium tuberculosis* 24, 1178, 1179, 1277, 1643, 1644, 2244, 2300, 2331, 2334, 2334, 2619, 2619, 3412, 3708, 3791, 3799, 3940, 3941, 4048, 4837, 5064, 5134, 5926, 6298, 6518, 6629, 6801, 6901, 7413, 7512, 7768, 7897, 7897, 7907, 8219, 8221, 8306, 8403, 9678, 9854, 10126, 10208, 10383, 10652, 10747, 10820, 11607, 11736, 12163, 12228, 12453, 12454, 12489, 13109, 13264, 13481, 13485, 13486, 13487, 13488, 13492, 13493, 13494, 13495, 13979, 14216, 14217, 14217, 14758, 14840, 14842, 15027, 15715, 15737, 15800, 15881, 15939, 16050, 16439, 16912, 16913, 16914, 16915, 17375, 17568, 17861, 18011, 18086, 19312, 19533, 19777, 19827, 20061, 20511, 20679, 20680, 20681, 20717, 21206, 21236, 21503, 21589, 21776, 21866, 22080, 22270, 22282, 22774.
- Antibacterial, *Mycobacterium tuberculosis* 607 strain 17570.
- Antibacterial, *Mycobacterium tuberculosis* avium isoniazid-resistant strain 15939.

- Antibacterial, *Mycobacterium tuberculosis* H37Rv strain** 4632, 4633, 4634, 6302, 8085, 13638.
- Antibacterial, *Mycobacterium vaccae* IMET10670 strain** 2680, 2681, 2682.
- Antibacterial, *Mycobacterium xenopi*** 19174.
- Antibacterial, *Neisseria* sp.** 8095.
- Antibacterial, no explanation of bacterial species** 126, 370, 585, 595, 597, 598, 664, 754, 762, 783, 822, 834, 920, 1080, 1159, 1348, 1476, 1745, 1842, 1845, 1897, 1904, 1990, 2013, 2034, 2106, 2284, 2304, 2309, 2376, 2594, 2678, 2887, 3094, 3231, 3294, 3308, 3498, 3498, 3502, 3598, 3695, 4005, 4029, 4348, 4349, 4398, 4536, 4976, 5152, 5445, 5524, 5694, 5858, 6040, 6261, 6853, 7063, 7385, 7399, 7416, 7481, 7703, 7768, 7802, 7809, 7926, 7944, 7996, 8272, 8275, 8307, 8591, 8760, 8982, 9456, 9720, 9740, 9877, 11149, 11327, 11386, 11423, 11526, 11866, 11943, 12020, 12438, 12849, 14086, 14121, 14705, 14850, 15221, 15335, 15412, 15436, 15633, 15849, 15888, 16268, 16269, 16675, 16711, 16978, 17047, 17168, 17567, 17859, 17983, 18317, 18376, 18643, 18849, 19078, 19306, 19307, 19469, 19471, 19511, 19542, 19904, 19905, 19906, 19907, 19912, 19933, 19934, 19935, 20044, 20135, 20166, 20167, 20307, 20566, 20670, 20685, 21018, 21328, 21333, 21360, 21486, 21577, 22332, 22420, 22700, 22755, 22781, 22965, 22970, 22972, 23002.
- Antibacterial, original hyphomycete of blood red trichophyta** 3122.
- Antibacterial, pathogenic bacteria** 12420, 22498.
- Antibacterial, pathogenic bacteria in mouth** 13315.
- Antibacterial, *Penicillium aureus*** 675.
- Antibacterial, photo-activated antibacterial** 7830, 9226, 12254, 20002.
- Antibacterial, plant pathogenic bacteria** 5894, 6032, 7924, 16666, 18219.
- Antibacterial, *Proteus mirabilis*** 6735, 11570, 12615.
- Antibacterial, *Proteus mirabilis* IFO3849 strain** 7792, 11811, 12321, 12322.
- Antibacterial, *Proteus vulgare*** 21052.
- Antibacterial, *Proteus vulgaris*** 8456, 10104, 13398, 16442, 17489, 20018, 20019.
- Antibacterial, *Pseudomonas aeruginosa*** 207, 218, 2244, 2283, 3472, 4203, 6065, 7756, 7767, 10565, 10567, 11777, 11778, 11779, 16600.
- Antibacterial, *Pseudomonas aeruginosa* (*Bacillus pyocyaneus*)** 99, 6263, 7707, 10748, 11258, 13651, 13652, 16275, 16799, 18212, 18213.
- Antibacterial, *Pseudomonas cepacia*** 18219.
- Antibacterial, *Pseudomonas fluorescens*** 99.
- Antibacterial, *Pseudomonas maltophilia*** 5613, 7278, 8081, 8959, 10887, 11642, 15170, 15184, 18219, 18305, 18411, 18679, 18857, 18859, 20578.
- Antibacterial, *Pseudomonas* sp.** 17489.
- Antibacterial, *Pseudomonas syringae*** 6361.
- Antibacterial, *Pyricularia oryzae*** 15370, 17489, 19257, 19259.
- Antibacterial, *Ristella melaninogenica*** 21356.
- Antibacterial, *S. thermophilus*** 10351.
- Antibacterial, *Saccharomyces cerevisiae*** 15869, 15870.
- Antibacterial, *Salmonella aertrycke*** 3026, 7178, 13041, 17272, 20018, 20019, 21251, 21269, 21270.
- Antibacterial, *Salmonella aertrycke* ATCC14028 strain** 3689, 4135.
- Antibacterial, *Salmonella aertrycke* IFO13245 strain** 7792, 11811, 12321, 12322.
- Antibacterial, *Salmonella enteritidis*** 5747, 7764.
- Antibacterial, *Salmonella gallinarum*** 15885, 21251.
- Antibacterial, *Salmonella paratyphi* A** 16799, 16800.
- Antibacterial, *Salmonella setubal*** 3962, 14815.
- Antibacterial, *Salmonella* sp.** 515, 1244, 1250, 1252, 2844, 3157, 3158, 3186, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 6973, 9788, 10733, 13874, 13876, 14829, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 20390, 20578, 22496.
- Antibacterial, *Salmonella typhi*** 16799, 16800.
- Antibacterial, *Sarcina citrea*** 21022, 21034.
- Antibacterial, *Sarcina lutea*** 6303, 12537, 20968.
- Antibacterial, *Sarcina lutea* NIHJ strain** 5214.
- Antibacterial, *Sarcina* sp.** 8095, 15489.
- Antibacterial, *Sclerotinia libertiana*** 50.
- Antibacterial, *Serratia marcescens*** 8968.
- Antibacterial, *Shigella flexneri*** 6735.
- Antibacterial, *Shigella flexneri*** 4645, 6735.
- Antibacterial, *Shigella shigae*** 1179, 7521.
- Antibacterial, *Shigella sonnei*** 5747, 7764.
- Antibacterial, *Shigella* sp.** 16770, 20578.
- Antibacterial, six *Bacillus*** 11747.
- Antibacterial, *Sporothrix* sp.** 16555.
- Antibacterial, *Staphylococcus albus*** 5763.
- Antibacterial, *Staphylococcus aureus*** 10, 50, 51, 53, 99, 143, 207, 218, 515, 663, 755, 756, 899, 909, 1016, 1179, 1244, 1250, 1252, 1645, 1648, 2081, 2081, 2081, 2168, 2244, 2283, 2380, 2509, 2539, 2590, 2844, 2945, 2990, 2991, 2998, 3004, 3026, 3096, 3153, 3157, 3186, 3243, 3452, 3463, 3472, 3490, 3511, 3767, 3768, 3962, 4055, 4203, 4241, 4243, 4243, 4292, 4362, 4363, 4471, 4604, 4645, 4840, 4923, 5161, 5235, 5272, 5273, 5540, 5541, 5542, 5550, 5682, 5700, 5722, 5747, 5763, 5959, 6065, 6238, 6263, 6302, 6427, 6429, 6430, 6752, 6757, 6758, 6776, 6921, 6973, 7205, 7305, 7306, 7307, 7413, 7521, 7707, 7736, 7756, 7764, 7767, 7829, 7883, 7927, 8095, 8095, 8136, 8278, 8314, 8333, 8456, 8548, 8672, 8708, 8709, 8833, 8967, 9288, 9441, 9547, 9678, 9788, 9924, 10104, 10351, 10565, 10567, 10664, 10665, 10733, 10736, 10748, 10819, 10826, 11056, 11071, 11078, 11079, 11258, 11259, 11260, 11321, 11392, 11434, 11736, 11751, 11777, 11778, 11779, 11849, 12228, 12335, 12380, 12389, 12537, 12573, 12764, 12766, 12767, 12771, 12843, 12957, 12958, 13107, 13109, 13137, 13195, 13196, 13398, 13428, 13429, 13637, 13651, 13652, 13874, 13876, 14170, 14255, 14256, 14531, 14680, 14789, 14815, 14971, 15039, 15170, 15279, 15286, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 15342, 15728, 15869, 15870, 15872, 15881, 15885, 15910, 16119, 16183, 16264, 16275, 16429, 16439, 16442, 16532, 16545, 16555, 16597, 16598, 16600, 16741, 16742, 16743, 16744, 16745, 16747, 16748, 16749, 16770, 16799, 16800, 16802, 17018, 17019, 17048, 17049, 17247, 17272, 17283, 17361, 17362, 17363, 17371, 17456, 17486, 17487, 17488, 17489, 17491, 17602, 17696, 17777, 17862, 18071, 18097, 18102, 18212,

- 18213, 18219, 18269, 18270, 18547, 18759, 18868, 18972, 19174, 19257, 19259, 19574, 19575, 19593, 19614, 19819, 20018, 20019, 20093, 20137, 20390, 20444, 20687, 20697, 20699, 20700, 20701, 20702, 20968, 21052, 21239, 21257, 21266, 21269, 21270, 21362, 22190, 22191, 22239, 22270, 22380, 22496, 22667, 22759, 22815, 22818.
- Antibacterial, *Staphylococcus aureus* 17380 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus aureus* 17547 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus aureus* 17592 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus aureus* 17728 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus aureus* 18110 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus aureus* 18268 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus aureus* 209P strain** 3158, 5214, 6303, 13607, 18011.
- Antibacterial, *Staphylococcus aureus* 3012 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus aureus* 414 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus aureus* ATCC13709 strain** 8490, 8493, 8499, 9557, 9558, 10149, 13941.
- Antibacterial, *Staphylococcus aureus* ATCC25923 penicillin-sensitive strain** 18674, 22759.
- Antibacterial, *Staphylococcus aureus* ATCC25923 strain** 2685, 3029, 3475, 3689, 4135, 4200, 4202, 5229, 6626, 7825, 8218, 8219, 8221, 11324, 11683, 12018, 12060, 13088, 13088, 13281, 13492, 14969, 16747, 16748, 16749, 16754, 19299, 19452, 19546, 19547, 19548, 19549, 19550, 19551, 19552, 19553, 19554, 19555, 19556, 19557, 19558, 19559, 19560, 19561, 20150, 20686, 20687.
- Antibacterial, *Staphylococcus aureus* ATCC6538 strain** 10484, 14592.
- Antibacterial, *Staphylococcus aureus* drug-resistant strain** 4292, 8968, 10736, 12335, 20687.
- Antibacterial, *Staphylococcus aureus* EMRSA-15 strain** 16747, 16748, 16749, 16754.
- Antibacterial, *Staphylococcus aureus* H114 strain** 2081.
- Antibacterial, *Staphylococcus aureus* methicillin-resistant ATCC33591 strain** 5332, 5333.
- Antibacterial, *Staphylococcus aureus* methicillin-resistant JCM2874 strain** 847, 3453, 8140, 15042, 15043, 15044, 15056, 22667.
- Antibacterial, *Staphylococcus aureus* methicillin-resistant SK1 strain** 2685, 3029, 3475, 4200, 4202, 5229, 6626, 7825, 8218, 8219, 8221, 11324, 11683, 12018, 12060, 13088, 13088, 13281, 13492, 14969, 18674, 19299, 19452, 19546, 19547, 19548, 19549, 19550, 19551, 19552, 19553, 19554, 19555, 19556, 19557, 19558, 19559, 19560, 19561, 20150, 22759.
- Antibacterial, *Staphylococcus aureus* methicillin-resistant strain** 1135, 5276, 7354, 7355, 7356, 7357, 7358, 7792, 8218, 9393, 11811, 12321, 12322, 12597, 12766, 14967, 14970, 15587, 21132.
- Antibacterial, *Staphylococcus aureus* methicillin-sensitive strain** 7792, 11811, 12321, 12322.
- Antibacterial, *Staphylococcus aureus* multidrug-resistant ATCC25923 strain** 21727.
- Antibacterial, *Staphylococcus aureus* multidrug-resistant RN4220 strain** 2985, 5551.
- Antibacterial, *Staphylococcus aureus* multidrug-resistant SA-1199-B strain** 2985, 5551.
- Antibacterial, *Staphylococcus aureus* multidrug-resistant XU212 strain** 2985, 5551.
- Antibacterial, *Staphylococcus aureus* RN4220 strain** 15939, 21727.
- Antibacterial, *Staphylococcus aureus* SA-1199B strain** 16747, 16748, 16749, 16754, 21727.
- Antibacterial, *Staphylococcus aureus* sensitive strain** 8968.
- Antibacterial, *Staphylococcus aureus* SG511 strain** 2680, 2681, 2682.
- Antibacterial, *Staphylococcus aureus* TPR27 strain** 5214, 6303.
- Antibacterial, *Staphylococcus aureus* XU-212 strain** 16747, 16748, 16749, 16754.
- Antibacterial, *Staphylococcus aureus* XU212(TetKmecA) strain** 21727.
- Antibacterial, *Staphylococcus epidermidis*** 589, 909, 2584, 2591, 2592, 2593, 3368, 3962, 6302, 8081, 10159, 10351, 11262, 11263, 11264, 13651, 13652, 14815, 17272, 17862, 19592, 19593, 21830.
- Antibacterial, *Staphylococcus epidermidis* 2515 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus epidermidis* 3112 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus epidermidis* ATCC12228 strain** 3689, 4135.
- Antibacterial, *Staphylococcus epidermidis* ATCC2223 strain** 14592, 10484.
- Antibacterial, *Staphylococcus epidermidis* IFO3762 strain** 11811, 12322, 12321, 7792.
- Antibacterial, *Staphylococcus epidermidis* TPR25 strain** 5214, 6303.
- Antibacterial, *Staphylococcus hemolyticus flavus*** 6921.
- Antibacterial, *Staphylococcus saprophyticus* 3010 strain** 6018, 6020, 13469.
- Antibacterial, *Staphylococcus simulans* 214 strain** 6018, 6020, 13469, 13811.
- Antibacterial, *Staphylococcus* sp.** 930, 967, 1178, 3052, 14829, 20489, 20578, 21251, 22080.
- Antibacterial, *Staphylococcus* spp.** 20732, 22270.
- Antibacterial, *Staphylococcus tetragenus*** 3511, 5161.
- Antibacterial, *Streptobacillus* sp.** 515, 3157, 3158, 3186, 4840, 5272, 5273, 5540, 5541, 5542, 6973, 9788, 10733, 13874, 13876, 15297, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 22496.
- Antibacterial, *Streptococcus durans* 23** 13811.
- Antibacterial, *Streptococcus faecalis*** 3472, 3474, 7829, 12380, 12389, 15039, 15910, 16532, 16800, 16802, 20018, 20019, 21251, 21269, 21270.
- Antibacterial, *Streptococcus mutans*** 2303, 2509, 11348, 3057, 14567, 3055, 3058, 6366, 9702, 19985.
- Antibacterial, *Streptococcus mutans* ATCC25175 strain** 3689, 4135.
- Antibacterial, *Streptococcus pneumoniae*** 7413, 12228.
- Antibacterial, *Streptococcus pneumoniae*** 11259, 11260.
- Antibacterial, *Streptococcus pyogenes*** 16799, 16800, 17862.
- Antibacterial, *Streptococcus pyogenes* ATCC19615 strain** 3689, 4135.

- Antibacterial, *Streptococcus* sp.** 515, 967, 1178, 1244, 1250, 1252, 2844, 3052, 3157, 3158, 3186, 3511, 4840, 5161, 5272, 5273, 5540, 5541, 5542, 5550, 6973, 9596, 9788, 10733, 12771, 13388, 13874, 13876, 14154, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 18759, 20390, 22496.
- Antibacterial, *Streptococcus* var.** 10, 6178, 17696.
- Antibacterial, *Streptococcus varians*** 17862.
- Antibacterial, *Streptococcus viridans*** 11259, 11260, 16799, 16800.
- Antibacterial, *Streptomyces scabies*** 207, 218, 7707, 7756, 7767.
- Antibacterial, *Trichophyton* sp.** 2081.
- Antibacterial, used in treatment of skin diseases** 3122.
- Antibacterial, *Vibrio cholerae*** 5161, 6735.
- Antibacterial, *Vibrio parahaemolyticus*** 6735, 11570, 12615.
- Antibacterial, *Vibrio vulnificus*** 6735.
- Antibacterial, *Vibrio vulnificus* ATCC29307 strain** 3689, 4135.
- Antibacterial, vinegar organism** 19819.
- Antibacterial, α -*Streptococcus*** 3615, 5763, 6776, 8095, 12843, 17456.
- Antibacterial, β -*Streptococcus*** 16555, 17456, 17528.
- Antibiotic** 1179, 2063, 14968.
- Anti-caducity of plants** 22975.
- Anti-cancer-promoted activity** 7460.
- Anti-carcinogen, inhibits carcinogenic action of multiring aromatic hydrocarbons** 2298.
- Anti-carcinogenic** 2890, 18643.
- Anti-carcinogenic, inhibits TPA-stimulated ^{32}P -incorporation into the phospholipids of HeLa cells** 5377, 6424, 6425, 16922.
- Anticaries** 9631.
- Anti-Chagas' disease** 184, 1141, 1145, 1147, 3258.
- Anticholinergic** 1287, 1288, 2001, 2725, 2734, 2797, 6439, 7636, 8273, 10872, 11809, 12825, 17546, 18842, 19388, 20488, 21372.
- Anticoagulant** 126, 5858, 6040, 7063, 11414, 12766, 19469, 19471.
- Anticomplement activity** 3602, 10665, 13592, 17869, 18400, 18401, 18402, 18403, 20422, 20428, 20429.
- Anti-complication of diabetes** 11505.
- Anticonvulsant** 2791, 3079, 3318, 3588, 4536, 4936, 9184, 9223, 9330, 11077, 15370, 16532, 17451, 18623, 19111, 19737, 19738, 20002, 20509, 22270, 22336, 22346.
- Antidepressant** 10883, 10886, 11524, 17093, 17955, 22060.
- Antidiabetic** 12443, 12444, 22270.
- Antidiabetic** 920, 1618.
- Antidiarrheal** 759, 2303, 3308, 4421, 4921, 14933.
- Anti-diuretic** 6618, 13057, 22921.
- Antidote** 1039, 1275, 1845, 3412, 7381, 8761, 8785, 9818, 17347, 20444, 22269, 22562.
- Antidote (alcohol and venom)** 3412.
- Antidote (cobra-poisoning)** 9818, 20444.
- Antidote (diphacin poisoning)** 22562.
- Antidote (from poisoning by sulfhydryl enzyme)** 8785.
- Antidote (poisoning from anticholinergic)** 7381.
- Antidote (poisoning from barbitol)** 17347.
- Antidyskinetic** 9092.
- anti-early-pregnancy** 1191.
- Anti-electroshock** 7996, 9330.
- Antiemetic** 8081, 10186, 10215, 10450, 10630, 12015, 19997.
- Anti-endotoxin** 9217.
- Anti-epilepsy** 6708.
- Antiestrogenic** 7768, 22937.
- Anti-exudation** 21282.
- Antifeedant** 3087, 9013, 9456, 11843, 11844, 11845, 16652, 16653, 19652, 19653, 19654, 19656, 19657.
- Anti-fertility agent** 3909, 4190, 6767, 7243, 7945, 8967, 10814, 13575, 15527, 16793, 17337, 17568, 17592, 18033, 19187, 22011, 22815.
- Antifibrinolysis** 2366, 2367, 5484, 6700, 2183.
- Antifibrogenic** 2779.
- Antifibrotic** 7441.
- Antifungal inactive summary index** 504, 589, 618, 1343, 1470, 2296, 2590, 2833, 2945, 2990, 2991, 2998, 3048, 3791, 3799, 3856, 3962, 4422, 4550, 4712, 4816, 5134, 5547, 5747, 6263, 6758, 7756, 7764, 8107, 8576, 8578, 8580, 8623, 8708, 8709, 8985, 9223, 9225, 9486, 9597, 9857, 10159, 10565, 10629, 10748, 11001, 11071, 11078, 11079, 11086, 11230, 11258, 11269, 11601, 12048, 13259, 13571, 13860, 14109, 14498, 14516, 14698, 14699, 14915, 14957, 14958, 14959, 15118, 15152, 15518, 15737, 15881, 16247, 16248, 16439, 16555, 18359, 18784, 19077, 19193, 19589, 19590, 19591, 19592, 19593, 19594, 19595, 19983, 20018, 20019, 20990, 21239, 21266, 21835, 22616, 22777.
- Antifungal inactive, *Aspergillus flavus* KCCM11453** 3048, 4550, 20990.
- Antifungal inactive, *Aspergillus fumigatus*** 1470, 11230.
- Antifungal inactive, *Aspergillus niger*** 7756.
- Antifungal inactive, *Blastoschyzomyces capitatus* KCCM50270** 4550, 20990.
- Antifungal inactive, *Candida albicans*** 589, 618, 2296, 3791, 3799, 3962, 4422, 5134, 5547, 5747, 6758, 7764, 8623, 9486, 9597, 10159, 10565, 10629, 11269, 13259, 13860, 14698, 14699, 14915, 15118, 15737, 15881, 16439, 16555, 19589, 19590, 19591, 19592, 19593, 19594, 19595, 19983, 20018, 20019, 21239, 21266, 21835, 22616, 22777.
- Antifungal inactive, *Candida albicans* 19** 12048, 15152, 18359.
- Antifungal inactive, *Candida albicans* 32** 12048, 15152, 18359.
- Antifungal inactive, *Candida albicans* ATCC2091** 8107, 12048, 15152, 18359.
- Antifungal inactive, *Candida albicans* DSY1024** 14109, 14498.
- Antifungal inactive, *Candida albicans* KCCM11282** 3048, 4550, 20990.
- Antifungal inactive, *Candida glabrata*** 618, 8623, 9486, 14698, 14699, 19983, 21835.
- Antifungal inactive, *Candida krusei*** 5747, 7764, 20018, 20019.
- Antifungal inactive, *Candida tropicalis*** 618, 2590, 2945, 2990, 2991, 2998, 8623, 9486, 9857, 11071, 11078, 11079, 11086, 14698, 14699, 19983, 21835.
- Antifungal inactive, *Candida utilis* KCCM11356** 3048, 4550, 20990.
- Antifungal inactive, *Cladosporium cladosporioides*** 14516.
- Antifungal inactive, *Cladosporium cucumerinum*** 1343, 2833, 3856, 4816, 8985, 11001, 11601, 13571, 18784, 19077.

- Antifungal inactive, *Cladosporium herbarum*** 10629.
- Antifungal inactive, *Cladosporium sphaerospermum*** 8708, 8709, 14516.
- Antifungal inactive, *Cryptococcus neoformans* KCCM0564** 4550, 3048, 20990.
- Antifungal inactive, *Diaporthe nomurai*** 14958.
- Antifungal inactive, *Fusarium oxysporum*** 10629.
- Antifungal inactive, *Mucor miehei*** 8576, 8578, 8580.
- Antifungal inactive, *Nematospora coryli*** 8576, 8580.
- Antifungal inactive, no description on fungi species** 9223, 9225.
- Antifungal inactive, *Paecilomyces notatum*** 8576, 8580.
- Antifungal inactive, *Paecilomyces variotii*** 8576, 8580.
- Antifungal inactive, *Penicillium notatum*** 8578.
- Antifungal inactive, *Penicillium ochrocloron*** 504.
- Antifungal inactive, *Pyricularia oryzae*** 16247, 16248.
- Antifungal inactive, *Rhizopus oryzae*** 6263, 10748, 11258.
- Antifungal inactive, *Saccharomyces cerevisiae*** 3962, 19589, 19590, 19591, 19592, 19593, 19594, 19595.
- Antifungal inactive, *Sclerotinia* sp.** 14959.
- Antifungal inactive, *Stigmata mori*** 14957.
- Antifungal inactive, TLC** 2833, 3856, 8985, 10629, 11001, 11601, 13571, 18784, 19077.
- Antifungal inactive, *Trichoderma viride*** 504, 4712, 19193.
- Antifungal inactive, *Trichosporon mucoides* KCCM50570** 3048, 4550, 20990.
- Antifungal inactive, *Ustilago violacea*** 15518.
- Antifungal summary index** 51, 140, 206, 207, 218, 233, 234, 242, 318, 319, 357, 426, 432, 433, 434, 436, 504, 515, 660, 663, 675, 676, 834, 844, 909, 924, 1016, 1030, 1178, 1282, 1342, 1379, 1572, 1612, 1736, 1764, 1832, 1913, 1914, 2002, 2005, 2029, 2030, 2031, 2032, 2033, 2041, 2166, 2224, 2244, 2283, 2286, 2293, 2317, 2539, 2647, 2648, 2649, 2680, 2681, 2682, 2783, 2887, 2961, 2962, 2988, 3004, 3036, 3037, 3048, 3140, 3145, 3157, 3158, 3186, 3231, 3318, 3464, 3490, 3498, 3572, 3598, 3693, 3695, 3760, 3761, 3762, 3767, 3853, 3925, 3936, 3939, 3983, 4005, 4029, 4055, 4124, 4135, 4140, 4190, 4203, 4241, 4243, 4291, 4301, 4335, 4337, 4347, 4422, 4457, 4536, 4550, 4604, 4712, 4832, 4840, 4873, 4923, 5101, 5104, 5229, 5230, 5231, 5232, 5233, 5234, 5235, 5272, 5273, 5336, 5337, 5366, 5372, 5391, 5392, 5393, 5394, 5395, 5445, 5518, 5524, 5540, 5541, 5542, 5578, 5682, 5694, 5695, 5700, 5763, 5844, 5859, 5860, 5894, 5923, 5923, 6030, 6032, 6041, 6181, 6263, 6290, 6361, 6390, 6391, 6392, 6393, 6402, 6437, 6447, 6496, 6501, 6549, 6757, 6776, 6797, 6973, 7107, 7200, 7206, 7207, 7305, 7306, 7307, 7317, 7382, 7413, 7505, 7506, 7507, 7521, 7703, 7707, 7767, 7768, 7809, 7834, 7883, 7897, 7950, 7973, 8034, 8079, 8080, 8095, 8136, 8218, 8278, 8312, 8330, 8389, 8456, 8493, 8548, 8577, 8579, 8606, 8672, 8683, 8708, 8709, 8752, 8760, 8794, 8805, 8833, 8968, 9200, 9201, 9234, 9321, 9322, 9344, 9387, 9441, 9540, 9546, 9547, 9549, 9596, 9606, 9631, 9644, 9645, 9700, 9759, 9760, 9788, 10041, 10082, 10104, 10126, 10257, 10258, 10260, 10351, 10463, 10464, 10465, 10484, 10600, 10639, 10664, 10665, 10709, 10732, 10733, 10748, 10826, 10831, 10832, 10839, 10840, 10841, 11056, 11092, 11130, 11203, 11246, 11258, 11269, 11280, 11303, 11322, 11379, 11408, 11434, 11526, 11607, 11673, 11777, 11778, 11779, 11851, 11903, 11943, 11978, 12184, 12228, 12344, 12501, 12542, 12580, 12778, 12849, 12917, 13011, 13016, 13085, 13088, 13105, 13106, 13107, 13137, 13150, 13195, 13196, 13241, 13259, 13281, 13398, 13416, 13428, 13429, 13513, 13637, 13638, 13808, 13820, 13821, 13861, 13874, 13876, 13965, 13990, 13991, 14020, 14029, 14101, 14116, 14182, 14217, 14347, 14446, 14454, 14515, 14541, 14581, 14587, 14588, 14592, 14705, 14728, 14789, 14850, 14954, 14955, 14956, 14957, 14958, 14959, 14960, 15020, 15021, 15027, 15124, 15142, 15204, 15279, 15297, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 15342, 15489, 15629, 15633, 15635, 15741, 15855, 15872, 15885, 15998, 16130, 16168, 16169, 16257, 16264, 16267, 16339, 16388, 16442, 16545, 16600, 16666, 16674, 16675, 16934, 17047, 17048, 17049, 17225, 17257, 17258, 17259, 17260, 17261, 17278, 17341, 17376, 17377, 17403, 17420, 17421, 17438, 17439, 17477, 17478, 17481, 17482, 17570, 17602, 17777, 17833, 17841, 17842, 17864, 17865, 17924, 17926, 17931, 18003, 18029, 18031, 18033, 18035, 18036, 18088, 18102, 18103, 18163, 18214, 18215, 18265, 18270, 18280, 18547, 18643, 18759, 18780, 18849, 19078, 19086, 19121, 19168, 19172, 19174, 19193, 19316, 19394, 19452, 19542, 19777, 19784, 19909, 19912, 19929, 20041, 20042, 20060, 20070, 20093, 20134, 20210, 20211, 20382, 20566, 20670, 20901, 20975, 20990, 21119, 21143, 21146, 21147, 21171, 21253, 21257, 21270, 21328, 21329, 21347, 21348, 21360, 21434, 21435, 21488, 21557, 21559, 21737, 21745, 21749, 21790, 21904, 21908, 22059, 22080, 22104, 22105, 22158, 22190, 22191, 22195, 22213, 22332, 22336, 22347, 22436, 22437, 22438, 22474, 22496, 22505, 22526, 22638, 22667, 22700, 22741, 22742, 22755, 22768, 22903, 22966, 23002, 23014.
- Antifungal, 17 kinds of fungi** 8095.
- Antifungal, *Acrothesium floccosum*** 17341.
- Antifungal, *Alternaria alternata*** 206, 357, 2002, 3853, 4291, 6030, 9387, 9759, 9760, 10082, 13416.
- Antifungal, *Alternaria citri*** 5694, 17420, 20382.
- Antifungal, ash fungi** 5763.
- Antifungal, *Aspergillus flavus*** 206, 357, 2002, 3853, 6030, 9759, 9760, 10082, 11903, 11978, 13416, 14789, 17478.
- Antifungal, *Aspergillus flavus*** 9200, 9201.
- Antifungal, *Aspergillus flavus* IHM37.19** 2962, 5844, 6181, 10463, 10464, 10831, 10832, 13808, 21790.
- Antifungal, *Aspergillus flavus* KCCM11453** 3231, 21360.
- Antifungal, *Aspergillus fumigatus*** 1030, 2961, 2988, 4335, 4347, 11303, 11978, 14029, 17478, 21488, 22667.
- Antifungal, *Aspergillus fumigatus* CBS113.26** 2962, 5844, 6181, 10463, 10464, 10831, 10832, 13808, 21790.
- Antifungal, *Aspergillus nidulan*** 22667.
- Antifungal, *Aspergillus niger*** 206, 207, 218, 357, 504, 515, 2002, 3157, 3158, 3186, 3853, 4203, 4712, 4840, 5101, 5272, 5273, 5540, 5541, 5542, 6030, 6263, 6361, 6973, 7707, 7767, 8456, 8672, 8683, 9549, 9759, 9760, 9788, 10082, 10104, 10733, 10748, 11246, 11258, 11778, 13398, 13416, 13874, 13876, 14789, 15297, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313, 15314, 15315, 15316, 16257, 16442, 17602, 19193, 19784, 20060, 21435, 22496.

- Antifungal, *Aspergillus niger* IHEM2951** 2962, 5844, 6181, 10463, 10464, 10831, 10832, 13808, 21790.
- Antifungal, *Aspergillus niger* KCCM11239** 3048, 3231, 4550, 20990, 21360.
- Antifungal, *Aspergillus ochraceus*** 206, 357, 504, 2002, 3853, 4712, 6030, 9759, 9760, 10082, 13416, 19193.
- Antifungal, *Aspergillus parasiticus*** 22768.
- Antifungal, *Aspergillus terreus* 5029.2000** 2962, 5844, 6181, 10463, 10464, 10831, 10832, 13808, 21790.
- Antifungal, *Aspergillus versicolor*** 206, 357, 2002, 3853, 6030, 9759, 9760, 10082, 13416.
- Antifungal, *Bipolaris leersiae*** 14954.
- Antifungal, *Blastomyces* sp.** 15872.
- Antifungal, *Blastomyces dermatitidis*** 17049.
- Antifungal, *Blastoschizomyces capitatus*** 11978, 17478.
- Antifungal, *Blastoschizomyces capitatus* KCCM50270** 3048, 3231, 21360.
- Antifungal, *Botrytis cinerea*** 1030, 5694, 5894, 6032, 10600, 11246, 17420, 20382, 22505.
- Antifungal, broad spectrum** 11851, 19121.
- Antifungal, *Candida albicans*** 242, 675, 909, 924, 1016, 2244, 2283, 2680, 2681, 2682, 3318, 3490, 3925, 4055, 4203, 4241, 4832, 4923, 5678, 5682, 5923, 6263, 6437, 6447, 6757, 7107, 7206, 7207, 7897, 8095, 8456, 8548, 8606, 8672, 8708, 8709, 9200, 9201, 9321, 9322, 9441, 9547, 9596, 10041, 10104, 10126, 10257, 10258, 10260, 10639, 10664, 10665, 10748, 10826, 11056, 11258, 11777, 11778, 11779, 11978, 12344, 13137, 13195, 13196, 13241, 13398, 13428, 13429, 14217, 14446, 15027, 15124, 15489, 15885, 16339, 16442, 16600, 17403, 17478, 17602, 17864, 17865, 18029, 18102, 18214, 18215, 19174, 20093, 20060, 21146, 21147, 21253, 21257, 21270, 21328, 21435, 21559, 22195.
- Antifungal, *Candida albicans* 19** 2286, 5518, 13965, 14101.
- Antifungal, *Candida albicans* 32** 2286, 5518, 13965, 14101.
- Antifungal, *Candida albicans* ATCC1023** 8493.
- Antifungal, *Candida albicans* ATCC10231** 6797, 10484, 14592.
- Antifungal, *Candida albicans* ATCC2091** 2286, 5518, 13965, 14101.
- Antifungal, *Candida albicans* ATCC663.90** 2962, 5844, 6181, 10463, 10464, 10831, 10832, 13808, 21790.
- Antifungal, *Candida albicans* KCCM11282** 3231, 21360.
- Antifungal, *Candida glabrata*** 1572, 4335, 4347, 6437, 6447, 8606, 9200, 9201, 21488.
- Antifungal, *Candida guilliermondii*** 8079, 8080.
- Antifungal, *Candida krusei*** 19174.
- Antifungal, *Candida mycoderma*** 51, 2539, 3004, 3004, 4243, 4604, 5235, 7305, 7306, 7307, 7883, 8136, 8278, 11434, 13107, 13637, 15342, 16545, 17048, 22667.
- Antifungal, *Candida niger* ATCC10335** 6797.
- Antifungal, *Candida* sp.** 3140, 8833.
- Antifungal, *Candida tropicalis*** 6437, 6447.
- Antifungal, *Cladosporium cladosporioides*** 2166, 5700, 6361, 19168.
- Antifungal, *Cladosporium cladosporioides*** 206, 357, 504, 2002, 2293, 3853, 4712, 5391, 5392, 5393, 5394, 5395, 5859, 5860, 6030, 6041, 6501, 8330, 9759, 9760, 10082, 13416, 13820, 13821, 14116, 14515, 14587, 14588, 14789, 15279, 19172, 19193, 21119, 21737, 21745, 21749.
- Antifungal, *Cladosporium cucumerinum*** 426, 432, 433, 434, 436, 2041, 4422, 5336, 5337, 5578, 7973, 9321, 9322, 10465, 10839, 10840, 10841, 11269, 11408, 12344, 14182, 14541, 14789, 15204, 17833, 17842, 18280, 19777, 22213, 22505.
- Antifungal, *Cladosporium cucumerinum*** 242, 5923, 10257, 10260, 10258.
- Antifungal, *Cladosporium fulvum*** 3572, 7200, 10709, 18780.
- Antifungal, *Cladosporium herbarum*** 5694, 17420, 20382.
- Antifungal, *Cladosporium herbarum*** 12542, 13259.
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- Anti-inflammatory, 12-LOX inhibitor in hmn platelets, without affecting the levels of cyclooxygenase** 2106, 16216, 22718.
- Anti-inflammatory, 15-LOX inhibitor** 1110, 1131, 2102, 2380, 4289, 13097, 13098, 13137, 19929.
- Anti-inflammatory, 5-LOX inhibitor** 444, 580, 2101, 2102, 2216, 3188, 3743, 6491, 7819, 7924, 7926, 8926, 8997, 9202, 9331, 11572, 12936, 15319, 15928, 16540, 16983, 17979, 18513, 19201, 19312, 19846, 19871, 22511, 22778.
- Anti-inflammatory, activity matches with aspirin** 12987.
- Anti-inflammatory, acute** 983, 16451.
- Anti-inflammatory, animal model** 3595, 9276, 17344, 17350, 18859, 21264.
- Anti-inflammatory, antiarthritic** 668, 3368, 7566, 8753.
- Anti-inflammatory, anti-edema** 118, 119, 2102, 2106, 6211, 10526, 11339, 14767, 14893, 15886, 18408, 19894, 21971.
- Anti-inflammatory, anti-inflammatory action in models of atherosclerosis, Alzheimer's disease, arthritis and pancreatitis; proposed mechanisms include macrophage activation inhibitor, lipoxygenase inhibitor, cyclooxygenase 2 inhibitor, and metabolite production via arachidonic acid pathways** 4398.
- Anti-inflammatory, antiproliferative, hmn mononuclear cells involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood** 8664.
- Anti-inflammatory, apoptosis, K562 cells, via inhibition of both LOX and COX** 18643.
- Anti-inflammatory, appears to be a highly specific antagonist for the CCR1 receptor** 19819.
- Anti-inflammatory, arthritis model, induced by carrageenan, suppresses recruitment of neutrophils** 12122.
- Anti-inflammatory, arthritis model, induced by formaldehyde or egg white** 8297.
- Anti-inflammatory, assay of dimethyl benzene-induced inflammation** 660, 7361, 11416, 11417.
- Anti-inflammatory, blocks macrophage inflammatory protein (MIP-1a) banding to hmn monocytes** 19819.
- Anti-inflammatory, blocks macrophage inflammatory protein (MIP-1a) binding to hmn embryonic kidney (HEK)/293 cells transfected with stable CC chemokine receptor-1 (CCR1)** 19819.
- Anti-inflammatory, blocks NO production and NOS activity and expression, rat macrophages and pancreatitis tissue** 4398.
- Anti-inflammatory, blocks regulated upon activation on normal T-cell expressed and secreted (RANTES) banding to hmn monocytes** 19819.
- Anti-inflammatory, blocks regulated upon activation on normal T-cell expressed and secreted (RANTES) binding to hmn embryonic kidney (HEK)/293 cells transfected with stable CC chemokine receptor-1 (CCR1)** 19819.
- Anti-inflammatory, blocks TNF- α -induced cell-cell adhesion between HUVECs and THP-1 cells** 18643.
- Anti-inflammatory, blocks VCAM-1 expression induced by IL-4 in endothelial cells** 16675.
- Anti-inflammatory, calcium-stimulated, mouse peritoneal macrophages and hmn platelets** 3981.
- Anti-inflammatory, caused by formalin** 5930.
- Anti-inflammatory, causes a pronounced reduction in the *c-fos* and TGF- β 1 expression in mouse skin stimulated by phorbol myristate acetate (PMA)** 18643.
- Anti-inflammatory, chemiluminescence assay** 21419, 21420, 21421, 21422.
- Anti-inflammatory, CINC-1 formation inhibitor, stimulated with LPS, LPSNRK-52E rat kidney epithelial cells** 18673.
- Anti-inflammatory, COX inhibitor** 16540, 16983, 18376, 19312, 19846, 19895, 19897, 19898.
- Anti-inflammatory, COX-1 inhibitor** 2890, 4056, 7180, 7860, 7868, 7869, 7870, 7871, 7872, 7873, 8814, 9486, 10041, 11753, 12178, 12891, 14106, 15203, 16550, 17371, 18317, 18513, 18643, 18644, 18645, 22504.
- Anti-inflammatory, COX-2 inhibitor** 1476, 2036, 2038, 2887, 2890, 3600, 4056, 6277, 6282, 7180, 7860, 7868, 7869, 7870, 7871, 7872, 7873, 8020, 8814, 9486, 10041, 10438, 10639, 12122, 12891, 13137, 13137, 13137, 14106, 14971, 14971, 14971, 15203, 15279, 16550, 17168, 17532, 18317, 18643, 18643, 18643, 18644, 18645, 19087, 21924, 22270, 22504, 22718.
- Anti-inflammatory, COX-2 inhibitor inactive** 330, 509, 510, 511, 6278, 6279, 6280, 11129, 13108, 15134, 19795, 19796.
- Anti-inflammatory, COX-2 inhibitor, inhibits expression of COX-2** 1476, 2036, 2038, 3600, 8020, 15279, 17168, 18317, 19087, 22718.
- Anti-inflammatory, COX-2 inhibitor, inhibits expression of COX-2, through inhibition of NF- κ B** 2036, 2038.
- Anti-inflammatory, COX-2 inhibitor, rat peritoneal macrophages, inhibits PGE2 production** 17532.
- Anti-inflammatory, COX-2 inhibitor, rat renal medulla** 13137, 14971.
- Anti-inflammatory, COX-2 inhibitor, selective** 16050, 22270.
- Anti-inflammatory, cytokine formation inhibitor, hmn peripheral blood monocytes, TNF- α , IL-1 β , IL-8 and IL-10** 20992.
- Anti-inflammatory, cytokine formation inhibitor, hmn peripheral blood mononuclear cells, TNF- α , IL-4, IL-2 and IFN- γ** 14976, 14977.
- Anti-inflammatory, cytokine formation inhibitor, macrophages, TNF- α , IL-6 and IL-12** 17240.
- Anti-inflammatory, cytokine formation inhibitor, RAW264.7 cells, TNF- α and IL-6** 13137, 18317, 8278, 3674.

- Anti-inflammatory, decreases expression of IL-1 α , IL-1 β , TNF- α and IL-6 mRNAs in J774A.1 macrophages 15635.
- Anti-inflammatory, diminishes increase in VCAM-1 and MCP-1 levels induced by TNF- α and oxidized LDL in HUVECs 9337.
- Anti-inflammatory, ear edema, both PMA and oxazolone-induced 13137.
- Anti-inflammatory, ear edema, prevents ear edema formation caused by PMA and synthesis of LOX products, especially LTC₄ and COX metabolites derived from arachidonic acid 14979, 13591, 10363.
- Anti-inflammatory, eczema in mouse ears, repeated administration of TPA 3462, 6938, 11530.
- Anti-inflammatory, edema and inflammation, induced by PMA 17958.
- Anti-inflammatory, experimental colitis 2102.
- Anti-inflammatory, free radical scavenger 19087.
- Anti-inflammatory, gpg ear edema, induced by benzoic acid 7521.
- Anti-inflammatory, gpg, erythema reaction from ultraviolet irradiation 664.
- Anti-inflammatory, ICAM-1 expression inhibitor 4217, 4218.
- Anti-inflammatory, ICAM-1 expression inhibitor, PMA-induced 13474, 13475.
- Anti-inflammatory, IL-12 production inhibitor 2102, 10886, 17240.
- Anti-inflammatory, IL-12 production inhibitor, macrophages, LPS-activated 10886, 17240.
- Anti-inflammatory, IL-12 production inhibitor, macrophages, LPS-activated, 2102.
- Anti-inflammatory, IL-1 β production inhibitor, hmn monocyte, LPS-stimulated 3368, 17862, 21397.
- Anti-inflammatory, IL-1 β /inhibitor, hmn monocyte 16539.
- Anti-inflammatory, IL-2 inhibitor, decreases expression of IL-2 in T-lymphocytes 16675.
- Anti-inflammatory, IL-5inhibitor 1476, 1492, 12020, 13137, 13145, 18409.
- Anti-inflammatory, IL-6 and IL-8 blocker, blocking production and expression of IL-6 and IL-8 2102, 22718.
- Anti-inflammatory, increases TNF- α level in RAW264.7 cells 2102, 2106, 22718.
- Anti-inflammatory, inhibits 5-LOX metabolites especially LTC₄ 3981.
- Anti-inflammatory, inhibits accumulation of NO₂⁻¹ 8214, 8215.
- Anti-inflammatory, inhibits activation of IL-12 gene promoter 10886.
- Anti-inflammatory, inhibits activation of NF- κ B, PMA- and TNF- α -induced, mechanism not involving antioxidant pathways 10886.
- Anti-inflammatory, inhibits binding of several chemokines, such as CXC, CC to hmn leukocytes or cells transfected with chemokine receptors 2102, 2106.
- Anti-inflammatory, inhibits C5a-stimulated release of TNF- α and IL-1 β 17460.
- Anti-inflammatory, inhibits C5a-stimulated release of TNF- α and IL-1 β , RAW264.7 cells 17460.
- Anti-inflammatory, inhibits chemotaxis of hmn peripheral blood neutrophils 6428.
- Anti-inflammatory, inhibits COX metabolite PGE₂, TXB₂ 3981.
- Anti-inflammatory, inhibits expression and production of of pro-inflammatory cytokines (IL-1 β , IL-6, TNF- α , IFN γ ., MIP-1 α/β), hmn peripheral blood mononuclear cells under stimulation with superantigenic staphylococcal exotoxins 2106.
- Anti-inflammatory, inhibits expression of iNOS 1790, 5669, 7982, 7985, 10628, 10820, 11017, 12122, 13433, 13434, 13435, 13436, 13437, 16603, 16713, 17409, 18643, 19405, 19406, 19895, 20686.
- Anti-inflammatory, inhibits expression of iNOS, TPA-treated hmn monocyte cell line THP-1 16713.
- Anti-inflammatory, inhibits induction of VCAM-1, HUVECs, TNF- α - and IL-1 β -stimulated 3911.
- Anti-inflammatory, inhibits inflammation induced by cancer promotor TPA 16221, 16222.
- Anti-inflammatory, inhibits lipid peroxidation see "Antioxidant, inhibits lipid peroxidation".
- Anti-inflammatory, inhibits lipid peroxidation, cephalopin 8278, 13088, 18685, 19450.
- Anti-inflammatory, inhibits LPS-induced DNA binding activity of NF- κ B, associated with decrease of p65 protein levels in nucleus 10820.
- Anti-inflammatory, inhibits LTB₄ biosynthesis 2106.
- Anti-inflammatory, inhibits metabolism of arachidonic acid 7926, 15038, 19259, 22274.
- Anti-inflammatory, inhibits metabolism of arachidonic acid, calcium ionophore-stimulated leukocytes, inhibits LTB₄ production 10182, 10472.
- Anti-inflammatory, inhibits mRNA expression and production of TNF- α or IL-6 in RAW 264.7 cells 11521, 11522.
- Anti-inflammatory, inhibits not only expression of inflammatory NF- κ B target genes such as iNOS, COX-2 and TNF- α but also production of PGE₂ and TNF- α 12122.
- Anti-inflammatory, inhibits over-production of NO and PGE₂ 16532.
- Anti-inflammatory, inhibits PGE₂ production and inhibits COX-2 production, but not COX-1 17532.
- Anti-inflammatory, inhibits production of COX metabolite PGE₂, reduces TXB₂ level 17145, 18792, 20569.
- Anti-inflammatory, inhibits production of of pro-inflammatory cytokines (TNF- α , IL-1 β , IL-4, IL-2 and IFN- γ), hmn peripheral mononuclear cells 22686, 22687, 22688.
- Anti-inflammatory, inhibits production of of pro-inflammatory cytokines (TNF- α , IL-1 β and IL-6) 16532.
- Anti-inflammatory, inhibits production of of pro-inflammatory cytokines (TNF- α and IL-1 β), hmn monocytes and macrophages 3368.
- Anti-inflammatory, inhibits production of PGE₂ and proMMP-9 in rabbit synovial fibroblasts 15635.
- Anti-inflammatory, inhibits production of PGE₂ in C6 rat glioma cells 2106.
- Anti-inflammatory, inhibits protein and mRNA expression levels of iNOS and COX-2 enzymes 10820.
- Anti-inflammatory, inhibits RANTES-induced CCR1 cell migration, without interfering with CCR1 cell migration induced by

- epidermal growth factor (EGF)** 19819.
- Anti-inflammatory, inhibits release and metabolism of arachidonic acid** 7802, 15170.
- Anti-inflammatory, inhibits release of histamine** 8214, 8215.
- Anti-inflammatory, inhibits release of β -glucuronidase, rat mast cells stimulated with compound 48/80** 8214, 8215.
- Anti-inflammatory, inhibits synthesis of COX-2 transcript** 22504.
- Anti-inflammatory, inhibits synthesis of iNOS transcript** 22504.
- Anti-inflammatory, inhibits synthesis of prostaglandin and leukotriene** 22059.
- Anti-inflammatory, inhibits thioglycolate-elicited rat peritoneal neutrophil accumulation and LPS-activated nitric oxide production in murine macrophages** 20978.
- Anti-inflammatory, lead compound to develop new anti-inflammatory drugs** 4398, 12122, 15635, 16532.
- Anti-inflammatory, lead compound to treat asthma** 13137.
- Anti-inflammatory, leukocyte elastase MMP-2/9 inhibitor** 6923, 14971.
- Anti-inflammatory, LTC₄ selective inhibitor, rat resident peritoneal macrophage** 2102.
- Anti-inflammatory, lysosome enzyme inhibitor, polymorphonuclear (PMN) leukocytes** 8405, 9053, 9054, 9056, 9060, 9061, 9062.
- Anti-inflammatory, may be useful for the treatment of various inflammatory diseases** 11017.
- Anti-inflammatory, modified Tan and Berridge method** 508, 5008, 8788, 12510, 12982, 12983, 18169, 20501.
- Anti-inflammatory, modulation of complement 5a-induced chemotaxis and inflammatory cytokines production in macrophages** 17460.
- Anti-inflammatory, modulator of cytokine network** 2004, 2102, 2106, 2983, 3269, 3270, 3272, 3273, 3307, 3368, 3368, 3674, 3911, 4398, 4565, 5699, 6923, 7278, 7714, 8278, 8423, 8424, 9276, 9337, 9456, 11521, 11522, 12523, 13137, 14971, 14976, 14977, 15635, 16532, 16675, 17240, 17409, 17460, 17862, 18317, 18643, 18673, 19308, 19427, 19819, 20992, 21206, 21397, 22686, 22687, 22688, 22718, 22727, 22728, 22729, 22730, 22731.
- Anti-inflammatory, most effective component of 10 compounds in *Schizonepeta tenuifolia* (JING JIE)** 17377.
- Anti-inflammatory, mus arthritis** 4589, 19955, 22023.
- Anti-inflammatory, mus ear edema, induced by arachidonic acid** 12766, 18219.
- Anti-inflammatory, mus ear edema, induced by croton oil** 977, 978, 5152, 7521, 8521, 8522, 10814, 11121, 11259, 11260, 17422, 22023.
- Anti-inflammatory, mus ear edema, induced by croton oil, by down-regulation of COX-2** 8401.
- Anti-inflammatory, mus ear edema, induced by phospholipase A₂** 19883, 19885.
- Anti-inflammatory, mus ear edema, induced by TPA** 205, 1971, 2102, 12766, 13098, 16080, 17345, 20710, 21392.
- Anti-inflammatory, mus paw edema model** 4614, 8965, 22700, 22938.
- Anti-inflammatory, mus paw edema model, induced by 5-HT** 664, 7243.
- Anti-inflammatory, mus paw edema model, induced by carrageenan** 663, 664, 966, 1768, 1928, 2455, 2594, 2990, 3462, 3743, 4328, 5573, 6454, 6487, 7243, 7521, 7659, 8304, 8841, 9288, 9419, 9705, 11747, 12122, 12916, 13481, 14896, 14897, 16050, 16080, 16525, 16532, 16867, 17042, 18221, 19540, 19922, 20509, 20569, 20717, 21055, 21435, 21438, 21439, 22080, 22151, 22433, 22504, 22504.
- Anti-inflammatory, mus paw edema model, induced by carrageenan, inhibits leucocyte aggregation in inflammatory exudate** 22720.
- Anti-inflammatory, mus paw edema model, induced by DMSO** 546, 547, 548.
- Anti-inflammatory, mus paw edema model, induced by formaldehyde** 19111.
- Anti-inflammatory, mus paw edema model, induced by glucosan** 664, 16525.
- Anti-inflammatory, mus paw edema model, induced by glucosan or acetate acid** 16532.
- Anti-inflammatory, mus paw edema model, induced by histamine** 663, 664.
- Anti-inflammatory, mus paw edema model, induced by phospholipase A₂** 11530, 21392.
- Anti-inflammatory, mus, experimental chronic arthritis** 16050, 14896.
- Anti-inflammatory, mus, formaldehyde edema model** 56, 309, 8841, 12510, 15286.
- Anti-inflammatory, mus, inflammation caused by TPA** 10967, 16362, 4963.
- Anti-inflammatory, mus, inhibits phoroplast permeability** 899.
- Anti-inflammatory, mus, inhibits vaso-permeability** 3588, 5161, 7495, 15843, 19922, 20569.
- Anti-inflammatory, mus, tampon granuloma model** 309, 3368, 4266, 8841, 8841, 9238, 11505, 11747, 13391, 13481, 13559, 22151, 22938.
- Anti-inflammatory, mus, tuberculin reaction model** 8841.
- Anti-inflammatory, mus, woolball model** 10887, 12018, 12020, 13137, 15279, 19087, 20099, 22270.
- Anti-inflammatory, myeloperoxidase inhibitor** 2102, 13098.
- Anti-inflammatory, NF- κ B inhibitor** 19401, 19402, 19403, 19404, 13474, 13475.
- Anti-inflammatory, NF- κ B pathway** 2890, 3141, 4398, 6923, 7239, 9288, 16031, 16713, 17862, 18317, 18643.
- Anti-inflammatory, NF- κ B activation inhibitor, LPS-induced, murine RAW264.7 cells** 171, 173, 222, 5939, 16675.
- Anti-inflammatory, NF- κ B inhibitor** 1790, 1791, 1802, 2004, 2036, 2038, 3307, 3362, 3368, 4746, 7195, 7196, 7197, 10820, 10886, 14097, 15002, 16163, 16166, 16167, 16675, 18643, 19407, 19895, 21930, 2102, 6288.
- Anti-inflammatory, NF- κ B inhibitor, hmn monocytes, prevents cytokines (IL-1, IL-6, TNF, IL-8) release and PGE₂ synthesis** 6288, 21930.
- Anti-inflammatory, NF- κ B inhibitor, LPS-induced, RAW264.7 cells** 16675, 14097, 4746, 7196, 7197, 15002, 7195, 1802, 1791, 1790.
- Anti-inflammatory, no detail information** 1828, 1965, 2325, 2414, 2687, 2886, 3221, 3464, 6183, 6816, 7370, 7528, 7529, 7530, 7531, 7532, 7950, 9455, 8293, 8295, 12907, 13809, 8360, 8361, 8365, 8363, 12608, 16025, 17267, 17648, 17918, 18440, 19074, 21245, 3935, 3937, 304, 538, 580, 1614, 2303, 2312, 2989, 3077, 3600, 3689, 3923, 3924, 4439, 4477, 4645, 4685, 4876, 5763, 6643, 6656, 6767, 6853, 7481, 7586,

- 7793, 7951, 9441, 8292, 8095, 11077, 12420, 9038, 9496, 11808, 12255, 13392, 13492, 13808, 13962, 14756, 12184, 8846, 11642, 11736, 10875, 11741, 13774, 16900, 17024, 17597, 17598, 17599, 17829, 18190, 18411, 19142, 19143, 19542, 19545, 19983, 20168, 20650, 20732, 21059, 21234, 21887, 22282, 22581, 27, 13437, 13435, 13436, 8865, 17403, 16535, 22990, 7833, 18824, 21862, 22332.
- Anti-inflammatory, NO production inhibitor** see "NO production inhibitor".
- Anti-inflammatory, NO, IL-1 β , IL-6 and TNF- α production inhibitor** 20686.
- Anti-inflammatory, ornithine decarboxylase inhibitor** 2102.
- Anti-inflammatory, PGE₂ production inhibitor** 12122, 16603.
- Anti-inflammatory, PGE₂ production inhibitor, LPS-induced, RAW264.7 cells** 1573, 8020, 8679, 10820, 19081, 19405, 19406, 22123, 22124, 22270.
- Anti-inflammatory, PGE₂ production inhibitor, rat peritoneal macrophages** 17532.
- Anti-inflammatory, PGE₂ production inhibitor, TPA-stimulated rat peritoneal macrophages** 20900, 20901.
- Anti-inflammatory, PMA-treated mammary epithelial cells, inhibits COX-2 transcription and COX-2 activity, by inhibiting signal transduction through PKC** 18643.
- Anti-inflammatory, prevents eotaxin production and mRNA eotaxin expression in hmn fibroblasts stimulated with IL-4/TNF- α** 2102.
- Anti-inflammatory, prevents integrin-mediated neutrophil adhesion and fMLP- or leukotriene B₄-induced transmigration** 7714, 21206.
- Anti-inflammatory, prevents production of TNF- α , IL-1b and IL-6 in LPS-activated macrophages, possibly via NF- κ B inhibition** 3307.
- Anti-inflammatory, prevents TNF- α and IL-6 production in RBL-2H3 stimulated mast cells, through a mechanism involving the blockade of NF- κ B activation** 2004.
- Anti-inflammatory, prostaglandin biosynthesis inhibitor** 4921, 4922, 8388.
- Anti-inflammatory, prostaglandin biosynthesis inhibitor, rbt kidney microsomes** 16571.
- Anti-inflammatory, prostanoid inhibitor, LOX pathway** 18643.
- Anti-inflammatory, rat, experimental gastric ulcer** 37.
- Anti-inflammatory, reduces arthritic inflammation in rat adjuvant-induced arthritis as well as abdominal constriction caused by acetic acid** 8401.
- Anti-inflammatory, reduces cell surface expression of adhesion molecules, resulting in inhibition of THP-1 monocyte adhesion to TNF- α stimulated HUVECs** 9337.
- Anti-inflammatory, reduces expression of ICAM-1 and VCAM-1 in THP-1 hmn monocytes** 3269, 3270, 3272, 3273.
- Anti-inflammatory, reduces expression of VCAM-1, aorta cells of hypercholesterolemic New Zealand rabbits** 9337.
- Anti-inflammatory, reduces ICAM-1 expression, mouse liver cells, LPS-stimulated** 13137.
- Anti-inflammatory, reduces IFN- γ -induced ICAM-1 protein, as well as mRNA expression in hmn keratinocytes** 5699.
- Anti-inflammatory, reduces leukocyte infiltration, measured as tissue peroxidase activity** 6938, 11530.
- Anti-inflammatory, reduces permeability of blood capillary and activity of hyaluronidase** 20066.
- Anti-inflammatory, reduces permeability of capillary and blood cell walls** 4097.
- Anti-inflammatory, reduces VCAM-1 expression, HUVECs, TNF- α -induced** 9337.
- Anti-inflammatory, retardation of macrophage recruitment and suppression of cytokines production might underlie potential usefulness of piperlactam S as an anti-inflammatory agent** 17460.
- Anti-inflammatory, specific NF- κ B inhibitor of DNA-binding activity of p50 subunit** 12122.
- Anti-inflammatory, sulfate of rutin being strong anti-inflammatory** 19087.
- Anti-inflammatory, suppresses expression of iNOS and COX-2 protein** 19405, 19406.
- Anti-inflammatory, suppresses expression of iNOS and COX-2, without cytotoxic effect** 16603.
- Anti-inflammatory, suppresses expression of NF- κ B target genes such as iNOS and COX-2** 1790.
- Anti-inflammatory, suppresses IL-1 β -induced production of PGE₂ in hmn synovial fibroblasts** 15635.
- Anti-inflammatory, suppresses iNOS expression and NO production, cultured cells, by down-regulation of NF- κ B binding activity via blockade of I κ B α degradation** 18643.
- Anti-inflammatory, TNF- α production inhibitor** 13137, 14097, 4746, 7196, 7197, 15002, 7195, 1802, 1791, 1790, 12122, 16675.
- Anti-inflammatory, TNF- α production inhibitor, LPS/IFN- γ -induced, N9 microglial cell lines** 8520.
- Anti-inflammatory, TNF- α production inhibitor, LPS/IFN- γ -induced, peritoneal macrophages** 9337.
- Anti-inflammatory, TNF- α production inhibitor, LPS-induced, RAW264.7 cells** 2983, 4565, 7278, 8423, 8424, 8520, 9276, 9456, 12523, 17409, 18673, 19308, 19427, 22727, 22728, 22729, 22730, 22731.
- Anti-inflammatory, TNF- α production inhibitor, LPS-induced, U937 cells** 8423, 8424.
- Anti-inflammatory, TNF- α production inhibitor, sulphhydryl (thiol, -SH) compounds abrogated the inhibitory effect** 4565.
- Anti-inflammatory, treatment of cervicitis** 7399, 7416.
- Anti-inflammatory, Ungar method** 15635.
- Anti-inflammatory, inhibits iNOS** 1854, 4292, 5722, 16717, 20685, 20686, 22059.
- Antileishmanial** 515, 580, 815, 816, 1141, 1145, 1146, 1241, 1244, 1250, 1252, 1937, 1939, 2004, 2229, 2346, 2683, 2833, 2844, 2920, 2924, 3157, 3158, 3166, 3186, 3306, 3551, 3609, 3674, 3856, 4080, 4279, 4478, 4840, 5272, 5273, 5540, 5541, 5542, 5550, 5675, 6024, 6025, 6776, 6973, 7646, 7650, 7651, 7925, 8325, 8985, 9750, 9788, 10310, 10465, 10733, 11001, 11148, 11195, 11601, 12232, 12487, 12916, 13571, 13874, 13876, 14222, 15297, 15298, 15300, 15301, 15302, 15303, 15304, 15305, 15306, 15307, 15308, 15309, 15312, 15313,

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- Antileishmanial inactive, *Leishmania donovani*** 4866, 15716.
- Antileprotic** 3485, 8955, 9697.
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- Antimalarial inactive, *Plasmodium falciparum*** 506, 580, 815, 816, 1241, 2004, 2334, 2924, 3166, 3306, 3551, 4866, 5675, 6809, 6810, 7925, 9750, 12916, 14222, 14729, 14731, 14758, 15716, 16154, 18221, 19568, 19960.
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- Antimalarial inactive, *Plasmodium falciparum* D6** 3852.
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- Antimalarial inactive, *Plasmodium falciparum* D6 clone** 3097, 3159, 9887, 13867, 13869, 13871, 16892.
- Antimalarial inactive, *Plasmodium falciparum* Dd2** 4068, 4069.
- Antimalarial inactive, *Plasmodium falciparum* FAC8** 1532.
- Antimalarial inactive, *Plasmodium falciparum* K1** 3413, 6034, 10159, 10426, 10427, 14915, 20369.
- Antimalarial inactive, *Plasmodium falciparum* K1 multidrug-resistant strain** 2911, 19999, 20377.
- Antimalarial inactive, *Plasmodium falciparum* NF54** 4982, 10159, 13297, 22230.
- Antimalarial inactive, *Plasmodium falciparum* poW** 1928, 4068, 4069, 5659, 7883.
- Antimalarial inactive, *Plasmodium falciparum* TM91C235 clone** 3097, 3159, 9887, 13867, 13869, 13871, 16892.
- Antimalarial inactive, *Plasmodium falciparum* W2 chloroquine-resistant** 3852, 5733.
- Antimalarial inactive, *Plasmodium falciparum* W2 clone** 3097, 3159, 9887, 13867, 13869, 13871, 16892.
- Antimalarial inactive, *Plasmodium* hmn** 11133.
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- Antimalarial, causes transformation of erythrocytes into stomatocytes** 16050.
- Antimalarial, cultivated *in vitro* by Trager and Jensen method** 17574, 20253.
- Antimalarial, formerly used to treat malaria** 18425.
- Antimalarial, inhibits *Plasmodium falciparum*. absorbing H^3 -sarkin *in vitro*** 2672.
- Antimalarial, *mus Plasmodium* sp.** 777, 1475, 23002.
- Antimalarial, *mus*, infected by *Plasmodium vinckei*** 16898, 17940.
- Antimalarial, no detail information** 3686, 8509, 9738, 20108, 21905, 1842, 2191, 4421, 5435, 9739, 9857, 12501, 16261, 17983, 20975.
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- Antimalarial, *Plasmodium falciparum*** 777, 1784, 1784, 1784, 1937, 1939, 2683, 2920, 3243, 3609, 3674, 5095, 6413, 6776, 7503, 8335, 8336, 10383, 11148, 11195, 11977, 13918, 14183, 16067, 16068, 16912, 16913, 16914, 16915, 16970, 17041, 17841, 17846, 17847, 18515, 19900, 21389, 22551.
- Antimalarial, *Plasmodium falciparum* 3D7** 675, 10656, 11358, 11594, 11596, 11598, 12455, 12766, 16366, 17422, 17423.
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- Antimalarial, *Plasmodium falciparum* D10 chloroquine-sensitive** 6018, 6020, 13811.
- Antimalarial, *Plasmodium falciparum* D2** 12573.
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- Antimalarial, *Plasmodium falciparum* D6 chloroquine-sensitive** 2148, 4949, 6971, 8322, 17309, 22278, 22279, 22818, 4104, 15739, 15764, 15804, 1857.
- Antimalarial, *Plasmodium falciparum* D6 clone** 21313, 21314, 21315, 21316.
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- Antimalarial, *Plasmodium falciparum* FCB1 COLOMBIA(CQR-) strain** 11723.
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- Antimalarial, *Plasmodium falciparum* FCR3 drug-sensitive strain** 19891, 19892.
- Antimalarial, *Plasmodium falciparum* FCR-3/A2 clone** 2870, 2871, 2872, 2873, 2875, 2883, 2884, 2885, 15722.
- Antimalarial, *Plasmodium falciparum* K1** 8, 589, 1141, 1145, 1147, 4048, 6433, 6896, 10310, 11978, 12487, 14325, 14396, 17478, 19234, 19235, 21475.
- Antimalarial, *Plasmodium falciparum* K1 chloroquine-resistant strain** 19891, 19892.
- Antimalarial, *Plasmodium falciparum* K1 multidrug-resistant strain** 1784, 2910, 11988, 17574, 19533, 20253.
- Antimalarial, *Plasmodium falciparum* NF54** 589, 6433, 6896, 13241, 14325, 14396.
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- Antimalarial, *Plasmodium falciparum* W2** 52, 53, 55, 1460, 1784, 5146, 6409, 8004, 8321, 9072, 9598, 12751, 14029, 14462, 16604, 17827, 17924, 18188, 18425, 19753, 19883, 19885, 19886, 19887, 19888, 21390.
- Antimalarial, *Plasmodium falciparum* W2 chloroquine-resistant strain** 52, 12751, 7304, 10398, 5833, 6018, 6020, 7329, 9885, 2148, 4949, 6971, 8322, 13811, 17309, 22278, 22279, 22818, 4104, 15739, 15764, 15804, 1857.
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- Antimalarial, *Plasmodium falciparum* W2 INDOCHINA(CQR) strain** 11723.
- Antimalarial, *Plasmodium* FcM29-Cameroon chloroquine resistant strain** 919.
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- Antineoplastic, mus tumor due to SV40 virus 3693.
- Antineoplastic, nasopharyngeal carcinoma 8524.
- Antineoplastic, NK/CY lymphatic carcinoma 21234.
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- Antineoplastic, no description on tumor types 136, 144, 145, 404, 576, 660, 909, 1128, 1275, 1467, 1789, 1866, 1971, 2026, 2073, 2119, 2300, 2318, 2938, 2946, 3053, 3076, 3094, 3197, 3198, 3308, 3467, 3506, 3529, 3551, 3861, 3909, 3911, 4053, 4106, 4128, 4140, 4238, 4239, 4295, 4300, 4317, 4319, 4321, 4322, 4324, 4352, 4457, 4547, 4657, 5093, 5187, 5236, 5543, 6262, 6290, 6490, 6737, 6741, 6772, 7030, 7031, 7236, 7327, 7550, 7552, 7554, 7555, 7559, 7579, 7580, 7584, 7585, 7586, 7593, 7594, 7595, 7739, 7768, 7996, 8403, 8429, 8430, 8846, 9015, 9329, 9571, 9572, 9740, 9882, 9928, 9929, 10881, 11295, 11525, 11903, 11992, 11993, 12011, 12145, 12146, 12465, 12503, 12732, 13072, 13100, 13801, 14356, 14821, 14822, 14828, 14830, 14835, 14836, 14839, 14923, 15417, 15419, 15570, 15634, 15637, 15741, 16019, 16085, 16205, 16278, 16279, 16290, 16352, 16451, 16623, 16675, 16795, 16796, 16797, 17009, 17039, 17243, 17278, 17411, 17413, 17417, 17558, 17859, 17862, 17952, 17998, 18012, 18050, 18086, 18297, 18411, 18623, 18679, 18843, 19057, 19194, 19201, 19308, 19313, 19316, 19455, 19472, 19479, 19480, 19484, 19487, 19498, 19499, 19629, 19697, 19715, 19811, 20160, 20234, 20387, 20419, 20500, 20664, 20730, 21243, 21397, 21486, 21589, 21889, 22072, 22098, 22151, 22152, 22153, 22268, 22405, 22407, 22413, 22414, 22475, 22497, 22551, 22581, 22718, 22951, 22987, 23033.
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- Antineoplastic, Oberling-Guerin transplanting myeloma 8841.
- Antineoplastic, 10 of 60 tested flavones show antineoplastic activity, isovitexin was one of the strongest three compounds 11773.
- Antineoplastic, P1534 leukemia 12733.
- Antineoplastic, P₃₈₈ 27, 90, 777, 1029, 1372, 1745, 2109, 2660, 2661, 2666, 2667, 2676, 2684, 3181, 3402, 3481, 4289, 4739, 5074, 5181, 5537, 6750, 6751, 6759, 7553, 7581, 7740, 8509, 8967, 9194, 9288, 10093, 10148, 10915, 11020, 11058, 11449, 11450, 11748, 11807,

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- Antineoplastic, p53-deficient hmn head and neck squamous cell carcinoma SQ-20B** 3498.
- Antineoplastic, papillary epithelioma** 12766.
- Antineoplastic, PC-1 hepatocellular carcinoma** 21234.
- Antineoplastic, prevents new vessel formation** 8424.
- Antineoplastic, produces cytotoxic activity under exposure of light with special wavelength** 18272.
- Antineoplastic, pulmonary adenoma** 8095, 14126.
- Antineoplastic, QGY7703 liver cancer** 22422.
- Antineoplastic, radioresistant and chemoresistant** 3498.
- Antineoplastic, Raji cells** 537, 1210, 1463, 1464, 3779, 3788, 4874, 4978, 5063, 5098, 5134, 5686, 6498, 6889, 7203, 7611, 7618, 7904, 7909, 7913, 8906, 8908, 8912, 8980, 8981, 9463, 9465, 9643, 10070, 10710, 11100, 11103, 11104, 11105, 11106, 11451, 11970, 12012, 12220, 12619, 13002, 14092, 15422, 15737, 16257, 16260, 17664, 17706, 17722, 17723, 17727, 17728, 19497, 19540, 19542, 19784, 21499, 22108, 22194, 22195, 22777, 22781.
- Antineoplastic, RNA tumor virus** 20717.
- Antineoplastic, RS188N(rad+) mutant yeast *Saccharomyces cerevisiae*** 2293, 5391, 5392, 5393, 5394, 5395, 6501.
- Antineoplastic, RS321 mutant yeast *Saccharomyces cerevisiae*** 2293, 5391, 5392, 5393, 5394, 5395, 6501.
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- Antineoplastic, S₁₈₀ sarcoma** 10, 140, 195, 759, 962, 1626, 1627, 2380, 3181, 3188, 3404, 3412, 3964, 3965, 4299, 4320, 4323, 6741, 6759, 8128, 8263, 9194, 9239, 9320, 11747, 12850, 13241, 13606, 13621, 14205, 14907, 14971, 15641, 15642, 16050, 17754, 18011, 18103, 19036, 19524, 19819, 20009, 20044, 20069, 20079, 20900, 20901, 21206, 21251, 22700, 22704, 22733.
- Antineoplastic, S₁₈₀ vaccinal** 11428.
- Antineoplastic, S37 mouse liver cancer** 22011.
- Antineoplastic, S37 sarcoma** 4399, 4400, 13241.
- Antineoplastic, S45 sarcoma** 12535, 18834.
- Antineoplastic, sarcoma** 1841, 15279.
- Antineoplastic, screened as potential antitumor promoters** 1210, 8906, 8908, 8912, 9463, 9465, 11100, 11103, 11104, 11105, 11106, 12012, 15422, 19497.
- Antineoplastic, shows antitumor activity without any cytotoxicity to Raji cells** 778, 779, 780.
- Antineoplastic, skin cancer** 409, 3209, 4455, 4872, 6762, 7167, 10067, 12843, 14090, 16935, 18939, 19889, 21483.
- Antineoplastic, skin cancer caused by DMBA** 6643.
- Antineoplastic, skin cancer, induced by chemical carcinogen** 3095.
- Antineoplastic, SMMC-7721** 3754, 16763, 20236.
- Antineoplastic, SN36 leukemia** 2380.
- Antineoplastic, squamosal carcinoma in skin** 14923.
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- Antineoplastic, SW620 hmn colorectal cancer** 6162, 21709.
- Antineoplastic, SWA16** 2331.
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- Antineoplastic, treatment of chronic myelocytic leukemia** 15631.
- Antineoplastic, treatment of colorectal cancer** 9609.
- Antineoplastic, treatment of gastric cancer** 8430, 21251.
- Antineoplastic, treatment of granulocytic leukemia** 11024.
- Antineoplastic, treatment of leukemia** 967.
- Antineoplastic, treatment of liver cancer** 16183.
- Antineoplastic, treatment of lung cancer** 20811.
- Antineoplastic, treatment of nasopharyngeal carcinoma** 20811.
- Antineoplastic, treatment of nonlymphatic leukemia** 9609.
- Antineoplastic, treatment of ovarian cancer** 20811.
- Antineoplastic, treatment of skin cancer** 5093.
- Antineoplastic, tumor caused by TPA** 6643, 8914, 17876, 17886.
- Antineoplastic, tumor xenograft** 6162, 11179, 21709.
- Antineoplastic, U14 cervical carcinoma** 1993, 4400, 11179, 11179, 11179, 11179.
- Antineoplastic, U4 mouse cervical carcinoma** 4399.
- Antineoplastic, unacceptable toxicity profile for clinical use** 15631.
- Antineoplastic, V-79 cancer** 3181.
- Antineoplastic, W₂₅₆ rat Walker sarcoma** 910, 2331, 2334, 5168, 6303, 6750, 6751, 7551, 7553, 7566, 7837, 7994, 9194, 9239, 9320, 9320, 11024, 12501, 12535, 13098, 14837, 14896, 14897, 15635, 16666, 19983, 20062, 20063, 20064, 20065, 20140, 20809, 20810, 20963, 21236, 21239, 21251, 22011, 22368, 22411.
- Antineoplastic, WM cancer** 1745.
- Antineoplastic, X5563 phlogocyte myeloma** 570.
- Antineoplastic, YAS ascites tumor** 6741.
- Antineoplastic, yeast bioassay for DNA-modifying agents** 2293, 3053, 5391, 5392, 5393, 5394, 5395, 6501.
- Antineoplastic, Yoshida sarcoma** 16593.
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- Antioxidant inactive, assay on AAPH-induced hemolysis of RBC** 12819, 12820, 12824.
- Antioxidant inactive, Cytochrome-C reduction** 1935, 11658, 11669, 12053, 15525.
- Antioxidant inactive, DCFH method, HL-60 cells** 1476, 4940, 5652, 5864, 5865, 9423, 12070, 21711, 21857.
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- Antioxidant inactive, FMLP-induced and OZ-induced oxidative burst** 6780, 6781, 6782, 8029, 10220, 10221, 10222, 10889, 10931, 16629, 16630, 16631, 16632.
- Antioxidant inactive, H₂O₂/horseradish peroxidase assay** 10885.
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- Antioxidant inactive, inhibits superoxide anion generation, fMLP/CB method** 12178.
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- Antioxidant inactive, lipid peroxide inhibitory experiment** 8869, 8871, 17518, 17559, 21415.
- Antioxidant inactive, lipid peroxide inhibitory experiment, rat hepatic homogenate, caused by FeSO₄** 8426, 8427.
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- Antioxidant inactive, superoxide anion radical scavenging assay, superoxide dismutase method** 7405, 16159, 16160, 22332, 7768.
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Antioxidant, hydroxyl radical scavenger 1845, 4298, 4385, 4386, 4387, 6081, 6200, 6923, 7280, 9605, 9631, 13331, 16170, 16171, 16172, 17510, 17511, 19572, 19573, 20566, 20900, 20901, 21130.

Antioxidant, inhibits formation of active oxygen 1928.

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- Antioxidant, inhibits formation of MDA, mitochondria of mus heart 17876.
- Antioxidant, inhibits H₂O₂-induced oxidative stress and DNA oxidative damage, cultured MDCK cells 3303.
- Antioxidant, inhibits lipid peroxidation, ADP/Fe²⁺-induced 3141, 5588, 17229, 21415.
- Antioxidant, inhibits lipid peroxidation, adriamycin- induced 1937, 1938, 1939, 1940, 1941, 1942, 1943, 20121, 20122.
- Antioxidant, inhibits lipid peroxidation, brain tissue, caused by insufficient oxygen and sugar 7788.
- Antioxidant, inhibits lipid peroxidation, caused by CCl₄ 1971.
- Antioxidant, inhibits lipid peroxidation, cephalopin 8278, 13088, 18685, 19450.
- Antioxidant, inhibits lipid peroxidation, cytoblast and microsome in hepatic cells 5414.
- Antioxidant, inhibits lipid peroxidation, effects on plasma oxidation after incubation with Fe²⁺/H₂O₂ 13581.
- Antioxidant, inhibits lipid peroxidation, enzymatic lipid peroxidation 21392.
- Antioxidant, inhibits lipid peroxidation, hepatic cell mitochondria in cats 16765.
- Antioxidant, inhibits lipid peroxidation, induced by vitamin C- nicotinamide ADP and Fe²⁺-cysteine in microsome of murine cerebral, hepatic and renal cells 4631, 12420, 19201.
- Antioxidant, inhibits lipid peroxidation, linoleic acid emulsion 9257, 9258, 9275, 9276.
- Antioxidant, inhibits lipid peroxidation, macrosome of liver cells in rat 962, 3303.
- Antioxidant, inhibits lipid peroxidation, microsome 3754, 16763.
- Antioxidant, inhibits lipid peroxidation, microsome of hepatocyte in rat 3493, 3831, 3832, 3829, 10038, 13438, 16836.
- Antioxidant, inhibits lipid peroxidation, microsome of hepatocyte in rat, ADP+NADPH-induced 17507, 17508, 17510, 21157.
- Antioxidant, inhibits lipid peroxidation, microsome of hepatocyte in rat, FeSO₄+cysteine-induced 1497.
- Antioxidant, inhibits lipid peroxidation, microsome of hepatocyte in rat, CCl₄-induced 1497.
- Antioxidant, inhibits lipid peroxidation, microsome, induced by Fe²⁺/VC, CCl₄/NADPH, or Fe³⁺/NADPH 20324.
- Antioxidant, inhibits lipid peroxidation, microsome, induced by ferrous-cysteine 9063, 9064, 9065, 9066, 21415.
- Antioxidant, inhibits lipid peroxidation, microsome, NADPH-dependent lipid peroxidation and autoxidation of linoleic acid 1562, 1564, 6863, 8051.
- Antioxidant, inhibits lipid peroxidation, mitochondria 3756.
- Antioxidant, inhibits lipid peroxidation, mitochondria of hepatocyte in rat 759, 962, 3490, 16836.
- Antioxidant, inhibits lipid peroxidation, mitochondria of hepatocyte in rat, ADP/NADPH-induced 8914, 18643.
- Antioxidant, inhibits lipid peroxidation, mitochondria of hepatocyte in rat, Fe²⁺/VC-induced 8914.
- Antioxidant, inhibits lipid peroxidation, mitochondria of hepatocyte in rat, FeSO₄-induced 11703.
- Antioxidant, inhibits lipid peroxidation, mus liver 15204.
- Antioxidant, inhibits lipid peroxidation, no description on target tissue and method 8870, 11648, 13250, 13253, 13514, 16983, 17278, 17283, 17285, 17352, 17517, 17519, 18643, 21320, 21321, 21415, 22505.
- Antioxidant, inhibits lipid peroxidation, rat brain homogenate 6086, 6105, 9189, 9190, 12682, 12683, 12684, 12685, 12686, 12687, 12688, 12689, 12690, 12691, 12695, 12696, 12697, 12698, 12701, 12702.
- Antioxidant, inhibits lipid peroxidation, rat cytoblast in liver cells 11735.
- Antioxidant, inhibits lipid peroxidation, rat heart and liver mitochondria 9631.
- Antioxidant, inhibits lipid peroxidation, rat hepatic homogenate, caused by H₂O₂ 8427.
- Antioxidant, inhibits lipid peroxidation, rat hepatocyte membrane, effects on Fe⁺³/ascorbate-induced lipid peroxidation 13581.
- Antioxidant, inhibits malondialdehyde (MDA) 845, 9053, 9054, 9055, 9056, 9057, 9060, 9061, 9062, 9063, 9064, 9065, 9066, 9869, 12391, 12392, 21415, 21415, 21415.
- Antioxidant, inhibits NOR1 (nitric oxide donor) action 778, 779, 780.
- Antioxidant, inhibits *t*-BuOOH induced luminescence, mus hepatic homogenate 11327.
- Antioxidant, iron chelating assay 9257, 9258, 9275, 9276, 12420, 14556.
- Antioxidant, iron/ascorbate system for antioxidative potency (AOP) determination 9376, 9383, 9386.
- Antioxidant, LDL peroxidation inhibitor 13212, 13292, 17884, 19419.
- Antioxidant, LDL peroxidation inhibitor, Cu⁺²-induced 6002, 6003, 6004, 11694, 12420, 12925, 17460, 19201, 19206, 21477, 21478, 21479, 21480.
- Antioxidant, LDL peroxidation inhibitor, Cu⁺²-induced and AAPH-induced 580, 7925, 1663, 2134, 2912.
- Antioxidant, linoleic acid solution 5725, 5726, 5729, 5730, 5731.
- Antioxidant, lipid peroxidation assay, enzyme-dependent 3068, 3064, 14210, 3065, 3069, 12420, 3066, 3067.
- Antioxidant, lipid peroxidation assay, enzyme-independent 3064, 3065, 3066, 3067, 3068, 3069, 12420, 14210, 21392.
- Antioxidant, minimizes loss of cell viability in endothelial cells 17460.
- Antioxidant, no description on experimental method 309, 361, 398, 580, 1074, 2564, 2859, 3368, 3680, 3681, 4225, 4398, 6302, 7521, 10351, 11195, 11266, 12771, 13370, 14261, 14997, 15278, 15279, 16532, 16540, 17486, 17489, 17491, 17886, 18643, 19781, 19819, 19903, 20451, 20452, 20453, 20454, 21415, 22718.
- Antioxidant, oxygen free radical scavenger 1938, 19201, 20901.
- Antioxidant, PEP inhibitor 5791, 9561, 11648, 18682.
- Antioxidant, peroxide formed from polymorph 10893.
- Antioxidant, peroxidization of rbt erythrocytic membrane 3303, 18323.
- Antioxidant, peroxidized anion scavenger 17895.
- Antioxidant, PMN cellular chemiluminescence assay 10883, 10929, 10932, 10930, 10933, 10885, 10884, 16633, 18317.
- Antioxidant, prevents oxidation of unsaturated fatty acid components to stabilize cell membranes 21415.
- Antioxidant, rat brain, effect on conjugated diene formation of LDL or MDA level 3984, 6344, 19923, 21955.

- Antioxidant, reduces oxidative burst FMLP-induced** 18317, 10883.
- Antioxidant, reduces risk of atherosclerosis** 17460.
- Antioxidant, reversed H₂O₂/FeSO₄-induced impairment of endothelium in rat aorta** 17460.
- Antioxidant, SOD-like activity** 1845, 3301, 3303, 5521, 7518, 8505, 8506, 16765, 19056, 19277, 20310, 20389, 20910.
- Antioxidant, superoxide anion radical scavenger** 1845, 1939, 1941, 3289, 3291, 3308, 3754, 4385, 4386, 4387, 6081, 6200, 6923, 7280, 8872, 8873, 9605, 11672, 12258, 12420, 16170, 16171, 16172, 17278, 17278, 17283, 17285, 17352, 17510, 18643, 18643, 19531, 19532, 19573, 20556, 20566, 21369, 21415.
- Antioxidant, superoxide anion radical scavenger, cytochrome C assay** 10933.
- Antioxidant, superoxide anion radical scavenger, hmn neutrophils, stimulated by fMLP/Cbor PMA** 5353, 16050.
- Antioxidant, superoxide anion radical scavenger, inhibits superoxide anion generation, fMLP/CB method** 5930, 5932, 10542, 9757, 5928, 15766, 9723, 10276, 5929, 9706.
- Antioxidant, superoxide anion radical scavenger, protects myocardial ischemia-reperfusion injury in rat myocardium mitochondrial membrane** 4630.
- Antioxidant, superoxide anion radical scavenger, superoxide dismutase method** 5763, 7432, 12020, 12052, 12062, 13479, 14711, 18317, 18323, 18361, 18376, 19087.
- Antioxidant, superoxide radical scavenger** 4930, 7445, 9257, 9258, 9275, 9276, 9550, 14489, 14556, 16174, 16175.
- Antioxidant, superoxide scavenger** 5791, 8869, 8870, 8871, 22505.
- Antioxidant, thiobarbituric acid reactive substance (TBARS) assay, inhibits peroxidation of linolenic acid** 10377, 10376, 21808.
- Antioxidant, up-regulates 50 genes and down-regulates many others** 10887.
- Antiparasite** 16266.
- Anti-phage** 12221.
- Antipneumocystis agent** 2376.
- Anti-pregnancy** 23021.
- Antiprotozoal** 2303, 3094, 3968, 8304, 8128, 11541, 11851, 14906, 18939, 19819, 22282.
- Antipyretic** 304, 554, 651, 1283, 1520, 1901, 1964, 2106, 2303, 2676, 3220, 3588, 3689, 3693, 3809, 3907, 4421, 4614, 4876, 5108, 5436, 6618, 6767, 7481, 7521, 7523, 8010, 8292, 9455, 11882, 12510, 15337, 16451, 16525, 16532, 16966, 19184, 19473, 20002, 20066, 20076, 20444, 20732, 21234, 21508, 21887, 22270, 22384, 22385, 22602, 22938, 23003.
- Antipyretic mechanism involves inhibition of PG synthesis in brain** 7521.
- Antirachitic vitamin** 22558.
- Anti-rejection symptom in skin grafting** 1191.
- Antiretroviral and cytotoxic** 9186, 9612, 13241, 22040.
- Antirheumatic** 8307, 10886, 13391, 16085, 19184, 19427, 22270.
- Anti-rheumatoid arthritis** 5613, 20481.
- Anti-sepsis** 14063, 14064.
- Anti-sepsis inactive** 1184, 1185, 14062, 14065.
- Antiseptic** 2284, 3237, 3318, 3760, 3761, 3762, 8312, 9703, 12436, 12849, 17089, 17602, 17931, 19187, 21360, 21366.
- Anti-seronine** 8395.
- Anti-sickling of cells** 9818, 22332.
- Antispasmodic** 56, 871, 904, 957, 1191, 1287, 1288, 1476, 1502, 1520, 1526, 1614, 1619, 1742, 1935, 1960, 2001, 2298, 2300, 2550, 2657, 2803, 3231, 3243, 3394, 3502, 3633, 3695, 3741, 3745, 3794, 3889, 3915, 4421, 4604, 5036, 5161, 5677, 6507, 6776, 6921, 7230, 7385, 7523, 7703, 7802, 7811, 9184, 9419, 9541, 10872, 11002, 11091, 11504, 11591, 11834, 12184, 12221, 12438, 12535, 12747, 12908, 13137, 13571, 14531, 14820, 14923, 14971, 15266, 15268, 15279, 15449, 16080, 16525, 16770, 16966, 17013, 17036, 17174, 18165, 19085, 19195, 19354, 19355, 19356, 19388, 19473, 19542, 19706, 19712, 19933, 19934, 20140, 20148, 20324, 21060, 21077, 21263, 21362, 21511, 22195, 22269, 22282, 22314, 22350, 22530, 22552, 22553, 22581, 22718, 22768, 22774, 22781, 22882.
- Antispirochetic** 4116, 5152, 6776.
- Anti-stimulation** 21350.
- Anti-stress** 86, 3751.
- Anti-sweetener** 2271, 11904, 11905, 11906, 11911, 20037, 23016, 23017, 23018.
- Antithrombotic** 10, 920, 921, 2102, 2266, 5440, 6700, 7978, 10684, 12420, 15635, 17568, 17978, 18378, 20009, 20121, 20686, 21157, 22497.
- Antitoxin** 2106, 3760, 3774.
- Anti-*Trichomonas vaginalis*** 576, 2061, 2615, 7323, 8047, 9809, 9810, 11203, 14728, 18627, 19414, 22282.
- Antitrypanosomal** 9235, 12501, 15881, 16555, 21397, 14728, 18094.
- Antitrypanosomal inactive (*Trypanosoma brucei*)** 4866.
- Antitrypanosomal inactive (*Trypanosoma brucei rhodesiense*)** 10159.
- Antitrypanosomal inactive (*Trypanosoma cruzi*)** 4866, 10159, 12845, 12846, 13729, 15716, 19983.
- Antitrypanosomal (*Castellanella gambiense*)** 7323.
- Antitrypanosomal (*Trypanosoma brucei rhodesiense*)** 580, 589, 815, 816, 1141, 1145, 1146, 1147, 1241, 1937, 1939, 2004, 2346, 2683, 2920, 2924, 3166, 3306, 3551, 3609, 3674, 4478, 4982, 5675, 6776, 7925, 8325, 9750, 11148, 11195, 11978, 12916, 13297, 14222, 16067, 16068, 17478, 18221, 19568, 19960, 22409, 22410, 22551.
- Antitrypanosomal (*Trypanosoma brucei*)** 506, 15716.
- Antitrypanosomal (*Trypanosoma brucei brucei*)** 585, 3293, 5417, 10310, 12232, 12487, 19234, 19235, 19542, 20369.
- Antitrypanosomal (*Trypanosoma cruzi*)** 184, 227, 376, 506, 580, 815, 816, 1141, 1145, 1146, 1147, 1241, 1460, 1842, 1937, 1939, 2004, 2346, 2683, 2920, 2924, 3166, 3258, 3306, 3551, 3609, 3674, 3761, 3762, 4088, 4204, 4205, 4478, 4891, 5477, 5675, 6348, 6759, 6776, 7925, 8004, 8325, 8979, 9031, 9032, 9033, 9072, 9727, 9728, 9729, 9732, 9750, 10296, 10297, 11148, 11195, 11978, 12497, 12842, 12916, 13719, 13720, 13721, 13722, 13905, 14222, 14384, 16050, 16067, 16068, 16604, 16711, 17006, 17478, 17851, 18187, 18188, 18221, 19568, 19636, 19753, 19960, 21390, 22270, 22551, 22579, 22580, 22963.
- Antitrypanosomal (*Trypanosoma equiperdum*)** 7323.
- Antitussive** 1618, 1866, 2274, 2312, 2557, 3237, 3588, 3615, 3885, 5178, 6776, 7996, 8347, 9315, 9564, 10887, 11507, 12446, 13137, 15146,

- 15263, 15460, 15469, 16623, 17283, 17456, 19955, 19983, 20307, 22086, 22087.
- Antitussive inactive** 6839, 10188.
- Antitussive, dispels phlegm** 10819, 9021, 9617, 10137, 11966, 15614, 17377, 17384, 17567, 17813, 19715, 663, 834, 1094, 1097, 1935, 2678, 3400, 4550, 6482, 6772, 7944, 9564, 12843, 13264, 14531, 15170, 11524, 13574, 13610, 13611, 17376, 18095, 18317, 18816, 20254, 17505, 19542, 7736, 5763, 20987, 17568.
- Ant ulcerative** 10, 140, 195, 777, 1287, 1476, 2071, 2887, 3308, 4873, 4889, 4893, 4941, 5665, 6990, 8297, 8524, 8841, 8965, 11504, 11808, 12908, 13388, 13492, 13678, 15705, 15882, 16085, 16505, 16525, 16693, 16694, 17220, 17546, 17549, 17550, 17551, 17552, 17886, 19332, 19388, 19422, 19423, 19424, 20082, 20205, 20444, 20711, 20714, 22270.
- Anti-venom** 2887, 5763.
- Antiviral inactive summary index** 2994, 2995, 4225, 10681, 11350, 14261, 14847, 14848, 14849, 21509, 21509, 21510, 21510.
- Antiviral inactive, HSV-1 virus** 6230, 6298, 10681, 13250, 13251, 14321, 16500, 21509, 21510.
- Antiviral inactive, HSV-2 virus** 10681, 21509, 21510.
- Antiviral inactive, MDCK cells, Flu-A virus** 12828, 13053, 13055, 15439, 16071, 16080.
- Antiviral inactive, Vero cells, HSV-1 virus** 12828, 13053, 13055, 15439, 16071, 16080.
- Antiviral inactive, Vero cells, HSV-2 333 virus** 4225, 11350, 14261, 14847, 14848, 14849.
- Antiviral inactive, Vero cells, HSV-2 virus** 2994, 2995.
- Antiviral summary index** 26, 736, 740, 784, 1372, 2044, 2811, 2865, 2866, 2867, 2868, 2869, 2887, 2892, 3094, 3197, 3198, 3300, 3308, 3498, 3502, 3551, 3588, 3622, 3623, 3875, 3909, 4048, 4354, 5093, 5161, 5613, 6272, 6402, 6551, 6772, 7323, 7518, 7833, 8095, 8246, 8307, 8423, 8424, 8427, 8458, 8846, 8967, 9194, 9456, 9458, 10059, 10589, 10681, 10886, 11086, 11129, 11524, 11569, 11703, 11903, 11978, 11980, 12070, 12420, 12733, 12828, 12849, 13053, 13055, 13137, 13239, 13241, 13481, 13863, 14728, 14965, 14971, 15286, 15439, 15462, 15849, 15881, 16003, 16071, 16080, 16268, 16498, 16499, 16500, 16511, 16555, 16599, 16601, 16777, 16793, 17216, 17217, 17337, 17341, 17342, 17574, 17578, 17579, 17580, 17581, 17582, 17592, 17593, 17896, 17952, 18028, 18050, 18251, 18272, 18317, 18376, 18411, 18770, 18771, 18824, 18868, 18916, 19087, 19142, 19148, 19211, 19777, 19819, 19900, 20253, 20307, 20369, 20434, 20578, 20670, 21059, 21089, 21328, 21508, 21698, 21862, 22215, 22216, 22721, 22863.
- Antiviral, Asia α -Influenza virus** 16555.
- Antiviral, Bunya virus** 16601.
- Antiviral, chicken ES4 virus** 12849.
- Antiviral, chickenpox virus** 8846.
- Antiviral, Cocksackie virus** 13241.
- Antiviral, Cxsackie-B virus** 14728.
- Antiviral, cytomegalovirus CMV(hmn)** 18770, 18771.
- Antiviral, cytomegalovirus CMV(mus)** 11978, 18770, 18771.
- Antiviral, EBV virus** 8246, 16599.
- Antiviral, EMC virus = Casrdiovirus** 18050.
- Antiviral, encephalitis B virus** 9194.
- Antiviral, encephalitis B virus in mouse** 5161.
- Antiviral, encephalitis B virus in mouse, RNA virus** 16601.
- Antiviral, endomyocarditis virus** 13239.
- Antiviral, epidemic type-1 poliomyelitis virus-1** 6402, 18376.
- Antiviral, Gesak virus** 17216, 17217.
- Antiviral, Gesak-B₄ virus** 6402, 18376.
- Antiviral, *H. suis* virus** 13137.
- Antiviral, Hep2 cells infected by Para-3 virus** 12828, 13053, 13055, 15439, 16071, 16080.
- Antiviral, Hep2cells infected by respiratory syncytial virus RSV** 16080.
- Antiviral, hepatitis B virus HBV in blood products** 3588.
- Antiviral, herpes zoster virus** 8846.
- Antiviral, herpesvirus** 13863, 14971.
- Antiviral, herpesvirus A** 13241.
- Antiviral, herpetic stomatitis RNA virus** 16268.
- Antiviral, hmn coronavirus strain 229E (HCoV-229E)** 11086, 18251.
- Antiviral, hmn T-lymphocytes-phil virus III HTLV-III** 3588.
- Antiviral, hmn T-lymphocytes-phil virus III HTLV-III** 3588.
- Antiviral, HSV virus** 7518, 11524, 12420, 13481, 17216, 17217, 17593, 19148.
- Antiviral, HSV/CV-1 virus** 17337, 17341, 17342.
- Antiviral, HSV-1 virus** 163, 422, 736, 740, 1372, 3875, 5303, 5613, 6551, 10059, 10589, 11129, 11569, 13098, 15462, 16499, 16511, 16793, 17337, 17592, 17896, 18868, 20253, 21059, 21508, 21724, 22721.
- Antiviral, HSV-1, DNA virus** 16268.
- Antiviral, HSV-2 virus** 736, 740, 6551, 10059, 16500, 10589, 15462, 16499, 17574, 17900, 18272, 21059.
- Antiviral, influenza virus** 3909, 8095, 9194, 11703, 15881, 19777.
- Antiviral, influenza virus A** 661, 8967, 11903, 18411.
- Antiviral, influenza virus A₂** 19142.
- Antiviral, influenza virus B** 11903.
- Antiviral, influenza virus sialoma inhibitor** 19211.
- Antiviral, inhibits biosynthesis of RNA** 4048, 13239.
- Antiviral, inhibits infection from RDV virus in young chicken embryo** 16003.
- Antiviral, inhibits infection of herpes simplex virus 2 in mus genital** 17216, 17217.
- Antiviral, inhibits replication of HSV-1** 2811, 8423, 8427, 8424, 19537.
- Antiviral, Japanese encephalitis virus** 8967, 18050.
- Antiviral, jockos, inactivator to hepatitis B virus HBV** 3588.
- Antiviral, Mayaro virus** 17952.
- Antiviral, measles virus** 1372, 16793, 17337, 17592, 19148.
- Antiviral, Mengo virus** 14728.
- Antiviral, meningitis virus** 18050.
- Antiviral, Newcastle disease virus** 9194.
- Antiviral, no explanation of virus species** 26, 784, 2044, 2887, 2892, 3094, 3197, 3198, 3300, 3308, 3498, 3502, 3551, 3622, 4354, 5093, 6772, 7323, 7833, 8307, 8423, 8424, 8427, 9456, 9458, 12070, 14965, 15849, 16498, 16777, 18317, 18824, 18916, 19819, 19900, 20307, 20434, 20670, 21328, 21862, 22863.
- Antiviral, non-A non-B hepatitis virus NANB** 3588.

- Antiviral, Para-3 virus** 661, 2865, 2866, 2867, 2868, 2869, 20369, 22215, 22216.
- Antiviral, poliomyelitis 1 virus** 18868.
- Antiviral, poliomyelitis virus** 11569, 12733, 13241, 17952, 20578.
- Antiviral, potato virus** 14971.
- Antiviral, poxvirus** 14728.
- Antiviral, PR₈ virus** 8967.
- Antiviral, pseudolyssa virus** 14728.
- Antiviral, respiratory syncytial virus RSV** 661, 22215, 22216.
- Antiviral, reverse transcriptive virus** 10886, 18028.
- Antiviral, rhinovirus II** 3623.
- Antiviral, Sendai virus** 19777.
- Antiviral, Sindbis virus** 11978.
- Antiviral, tobacco masaic virus** 8458.
- Antiviral, tobacco mosaic virus TMV** 6272.
- Antiviral, vaccinia virus** 9194, 12733.
- Antiviral, Vero cells infected by HSV-1 virus** 17578, 17579, 17580, 17581, 17582, 21089, 21698.
- Antiviral, vesicular stomatitis virus** 15286, 18411, 19087.
- Antiviral, vesicular stomatitis virus VSV** 17216, 17217.
- Antiviral, vesicular stomatitis virus VSV** 11569, 11978, 11980.
- Antiviral, vesicular stomatitis virus VSV/BHK** 17337, 17341, 17342.
- Antiviral, yellow fever virus** 16601.
- Anxiolytic** 2016.
- Anxiolytic and antidepressant** 8524.
- Aphrodisiac** 14057.
- APN inhibitor inactive** 6757, 8095, 11642, 10887, 18411, 16011, 18358, 18371, 21392.
- Apoptosis enhancer** 10287.
- apoptosis inducer** 1307, 8526, 8527, 8528, 8530, 8531, 8532, 8533, 8535, 8536, 8541, 8542, 8543, 8544, 16050, 20811.
- apoptosis inducer inactive** 6689.
- Arachidonic acid 5-lipoxygenase selective inhibitor** 3743.
- Arachidonic acid oxidase inhibitor** 14995.
- Aromatase inhibitor** 51, 846, 2635, 2647, 5086, 5746, 7485, 8262, 10506, 11490, 14964, 15279, 15934, 20326, 21116, 21151.
- Aromatase inhibitor inactive** 1764, 2172, 2629, 2630, 2648, 2650, 2651, 4108, 5894, 6001, 6088, 6102, 6103, 8141, 10445, 12681, 13571, 14956, 14961, 14962, 18643, 21086, 21117, 21128.
- Aromatic bitter** 3248.
- Aromatic L-amino-acid decarboxylase inhibitor** 17278.
- Astringent** 660, 909, 917, 1654, 7882, 8095, 17813, 21955.
- Attractant for many plant-eating insects** 9522.
- Attracts adult male dayfly (*Chrysopa septempunctata*)** 15434.
- BACE1 inhibitor** 9561.
- BChE inhibitor** 2233, 2815, 4516, 4532, 4542, 4996, 5828, 6159, 7082, 7128, 7177, 7210, 7381, 7381, 7835, 7928, 8009, 9200, 9201, 11002, 11004, 11291, 12834, 12835, 14449, 15322, 15323, 16988, 21374, 22700.
- BChE inhibitor inactive** 5739, 7213.
- Benzedrine antagonist** 16451.
- Benzodiazepine receptor agonist** 14865.
- Bidirectional action to blood pressure (first increases and then lowers blood pressure, while heart rate slows)** 8423, 8424, 8426, 8428, 8429, 8430.
- Bidirectional action to blood pressure (first increases and then lowers blood pressure, while heart rate slows)** 20100.
- Bidirectional action to blood vessel (dilates at low concentration and contracts at high concentration)** 4036.
- Bidirectional action to blood vessel (when dose less than 40nmol relaxes blood vessel, when dose over 40nmol contracts blood vessel)** 15317.
- Bidirectional action to CNS system (central sedation at low dose, central stimulation at moderate dose and paralytic death at high dose)** 8297.
- Bidirectional action to CNS system (central stimulation at high dose and sedation at low dose)** 651.
- Bidirectional action to CNS system (first stimulation and then inhibition)** 3220, 11202, 19388.
- Bidirectional action to CNS system (stimulation in low dose, inhibition in high dose)** 20069.
- Bidirectional action to drowsiness (excitation in low dose and inhibition in high dose)** 15129.
- Bidirectional action to heart (first stimulates and then inhibits)** 13237.
- Bidirectional action to heart (inhibits first and then stimulates)** 11851.
- Bidirectional action to nerve system (motor depressant in low dose and causes convulsion in high dose)** 9234.
- Bidirectional action to neuromuscular transmission (in high dose, first enhances and then inhibits)** 21593.
- Bidirectional action to potassium channel in myocardium membrane** 19201.
- Bidirectional action to sympathetic nerve (excites sympathetic fibers in low dose and inhibits them in high dose)** 22397.
- Bile secretion promoter** 2887, 1742, 20734, 2538, 4135, 15279, 17983, 22346, 22397, 5161, 4249.
- Binding activity to benzodiazepine receptor** 1476, 3745, 8090, 9564, 14085, 20577.
- Bioactive in connection with plant photosynthesis and path of respiration** 17515.
- Biosynthesis of DNA, promoter** 9456.
- Biosynthesis of DNA, protein and lipid, promoter** 8423, 8424, 8426, 8430.
- Biosynthesis of rRNA and mRNA in diabetic rat, promoter** 8424.
- Biosynthesis precursor of carthamin** 17771.
- Biosynthetic precursor of some drugs** 18304.
- Bitter principle** 486, 1017, 1779, 3206, 4318, 15286, 15404, 15555, 15652, 15655, 16080, 16551, 16650, 17215, 17705, 18299, 18425, 19184, 20913, 21599.
- Bitter-sweet taste** 8834.
- Blocks nerve** 19431.
- Blocks permeation of sodium through membranes of nerval fibrocyte** 21211.
- Blocks self-discipline nerve** 20496.
- Blocks sympathetic ganglia** 20650.
- Bone marrow cell proliferation promotor** 3308, 6853, 6864, 6921, 6923.
- Bone marrow inhibitor** 3404, 3911.

- Bone resorption inhibitor** 10896, 14698, 15985, 16408, 16409, 20228.
- Bone resorption inhibitor** 6456, 6457, 6458, 19778, 20556.
- Bradykinin antagonist** 20009.
- Ca²⁺-ATPase inhibitor** 18668.
- Caffeine antagonist** 16451.
- Calcitonin gene-related peptide (CGRP) stimulator** 7665.
- Calcium antagonist** 2041, 3935, 5135, 7512, 7721, 8423, 8424, 8426, 9553, 11680, 12916, 13836, 14184, 15321, 15645, 15704, 16711, 20121, 20122, 21077, 21490, 21493, 22144.
- Calcium channel blocker** 2606, 16263.
- Calcium channel receptor inhibitor** 2209.
- Calmodulin-dependent cAMP phosphodiesterase inhibitor** 10564.
- CaM interactor** 4918, 7838, 14639.
- CaM interactor inactive** 9480, 15936, 21038.
- cAMP phosphodiesterase inhibitor** 2102, 2613, 2614, 3160, 3602, 3745, 4898, 4918, 4996, 5250, 6254, 7838, 7924, 7926, 8423, 8424, 8426, 8427, 8833, 8914, 8968, 9331, 9546, 13594, 9681, 9682, 12333, 12344, 12355, 12358, 13145, 14639, 15038, 15455, 15456, 16867, 16989, 16997, 17020, 17305, 17306, 17409, 18219, 18368, 19072, 19259, 19588, 21493, 22720.
- 3',5'-cAMP-phosphodiesterase inhibitor** 18317.
- Cancer cell P-Glycoprotein inhibitor** 7596, 7597, 7598, 7599, 7600, 7601, 7602, 7603, 7604, 7605, 7606, 7607.
- Cancer cell stimulator, MCF7 and T47D cell proliferation** 4418.
- Capillary, enhances capillary permeability** 4319, 13137.
- Capillary, improves barrier of microcirculation** 4630, 10870, 18180.
- Capillary, inhibits increase of blood capillary permeability** 664, 3588, 4097, 5161, 7495, 8297, 15843, 16050, 19087, 19111, 19922, 20066, 20569.
- Capillary, improves osmosis of capillary** 11141.
- Capillary, prevents brittle rupture of blood capillary** 4439, 16900, 17024.
- Capillary, reduces blood capillary brittleness** 12255, 18317, 19087.
- Capillary, reduces effusion of Evan's blue from blood capillary** 5152.
- Carboxylation activity during metabolism of protein and carbohydrate** 2395.
- Carcinogen** 1713, 1835, 3847, 4456, 11189, 12535, 12543, 16657, 17127, 18098, 19121, 19731, 20527.
- Carcinogen assistant** 17187, 18640, 22658.
- Carcinogen promotor** 13476.
- Carcinogen, causes hepatic cancer** 14923.
- Cardiac glycoside** 9335, 9330, 16943, 17002, 19090, 20405.
- Cardiotonic** 377, 1844, 2187, 2190, 2191, 2716, 2728, 3048, 3277, 3278, 3729, 3732, 3942, 4005, 4029, 4036, 4192, 4544, 4547, 5104, 5523, 5526, 5533, 6530, 7296, 7303, 7320, 7342, 7343, 8461, 8968, 10915, 10981, 11524, 16031, 16050, 16084, 18216, 18637, 18785, 19958, 20056, 20140, 20403, 20671, 20730, 20732, 21325, 21326, 21435, 22301, 22629.
- Cardiovascular activity (against damage in cardiac cells)** 19201.
- Cardiovascular activity (against heart failure)** 4108.
- Cardiovascular activity (antiarrhythmic)** 618, 783, 930, 983, 1287, 1667, 2300, 2372, 4543, 4544, 4685, 5136, 7703, 7854, 8423, 8424, 8426, 8427, 9553, 9631, 9738, 11344, 11851, 12510, 12798, 13089, 13836, 15321, 15526, 15658, 15875, 15972, 16080, 16451, 16555, 18180, 18180, 18376, 19955, 20094, 20100, 20732, 21077, 21206, 21263, 21325, 21326, 22404, 22466, 22490.
- Cardiovascular activity (anti-arteriosclerosis)** 2791, 3909, 11834, 13212, 19738, 18165, 19070, 22270.
- Cardiovascular activity (anti-ischemia myocardial)** 2300, 2564, 3761, 3762, 4544, 4630, 4645, 9631, 18180, 22172, 22581.
- Cardiovascular activity (anti-myocardial infarction)** 4630, 9631, 22172.
- Cardiovascular activity (arterial pressure in both types of rats fell substantially, while heart rate of only anaesthetized rats also decreased)** 5569.
- Cardiovascular activity (assists in treatment of heart failure, coronary heart disease, hypertension and arrhythmia)** 22172.
- Cardiovascular activity (Cardioprotective)** 2606, 3633, 8914.
- Cardiovascular activity (causes heart beat to slow and amplitude to increasing in low dose; causes heart paralysis and hypotension in high dose)** 17505.
- Cardiovascular activity (contracts blood vessels, increases blood pressure and stimulates heart)** 15184.
- Cardiovascular activity (electrocardiogram changed)** 11020.
- Cardiovascular activity (enhances amplitude of contraction and reduces frequency of heart beat)** 15288.
- Cardiovascular activity (enhances arterial tension and myocardial contractility)** 9419.
- Cardiovascular activity (enhances cardiac motility)** 5067.
- Cardiovascular activity (enhances collateral circulation and oxygen consumption upon lack of blood in myocardium)** 4604.
- Cardiovascular activity (enhances contractility of main artery)** 20968.
- Cardiovascular activity (enhances myocardial contractility and increases blood flow)** 6559.
- Cardiovascular activity (enhances myocardial contractility and raises heart rate)** 19846.
- Cardiovascular activity (enhances myocardial contractility and reduces scope of contraction)** 6691.
- Cardiovascular activity (enhances myocardial contractility with peripheral anapetia)** 1866.
- Cardiovascular activity (enhances myocardial contractility)** 4108, 4353, 7343, 16555, 16756, 16997, 19639, 20094, 21511, 22237.
- Cardiovascular activity (improves acute myocardial ischemia)** 3633.
- Cardiovascular activity (improves myocardium metabolism and promotes restoration of myocardial function)** 4645.
- Cardiovascular activity (improves peripheral circulation and markedly increases amount of urine)** 6559.
- Cardiovascular activity (increases atrial and ventricular thresholds, also reduces atrial conduction)** 19762.
- Cardiovascular activity (increases cerebral blood flow)** 19540, 19587.
- Cardiovascular activity (increases contractility of atrium);** 16451.
- Cardiovascular activity (increases coronary flow and cerebral blood flow)** 11344.
- Cardiovascular activity (increases coronary flow and slows heart rate)** 4609, 20730.
- Cardiovascular activity (increases coronary flow)** 3633, 4480, 4543,

- 4544, 4604, 4631, 4645, 4889, 5414, 6752, 6753, 7303, 8914, 13137, 14796, 22552.
- Cardiovascular activity (increases coronary flow, reduces consumption of oxygen in myocardium, increases cerebral blood flow, lowers blood pressure, and slows heart rate)** 5750.
- Cardiovascular activity (induces myocardial rhythm)** 14796.
- Cardiovascular activity (inhibits cardiac contraction, causes a prolongation of the latency time and decrease of contraction force)** 4911, 4931, 4932, 4933, 5215, 5869, 7091, 7092, 10071, 10683, 19091, 20162.
- Cardiovascular activity (inhibits cardiac fibrillation)** 21263.
- Cardiovascular activity (inhibits cardiac muscles)** 15321, 21239.
- Cardiovascular activity (inhibits content of free radicals in myocardial cells)** 8424.
- Cardiovascular activity (inhibits contraction of auricular smooth muscle)** 2284.
- Cardiovascular activity (inhibits contraction of blood vessel and cardiac muscle)** 17762.
- Cardiovascular activity (inhibits damage of myocardial cells caused by free radicals)** 11266.
- Cardiovascular activity (inhibits frog heart *in vitro*)** 8289, 8297.
- Cardiovascular activity (inhibits heart and relaxes artery)** 17568.
- Cardiovascular activity (inhibits heart rate)** 18299.
- Cardiovascular activity (inhibits heart)** 643, 3002, 3907, 5435, 6552, 16674, 22153.
- Cardiovascular activity (inhibits malondialdehyde (MDA) formed by abnormality of calcium concentration in cardiac muscle cells)** 8914.
- Cardiovascular activity (inhibits myocardial automatic rhythmicity and contractile power)** 13836.
- Cardiovascular activity (inhibits myocardial contractility)** 117, 304, 2300.
- Cardiovascular activity (inhibits myocardial contraction and calcium antagonist)** 16280.
- Cardiovascular activity (inhibits sino-atrial rate and contraction of atrium papillary muscle in dog)** 16759.
- Cardiovascular activity (makes heart stop in period of relaxation)** 3218.
- Cardiovascular activity (Protects cardiac muscle from lack of blood)** 20688.
- Cardiovascular activity (protects *in vitro* heart from damage during ischemic re-perfusion)** 17762.
- Cardiovascular activity (raises heart rate)** 5067.
- Cardiovascular activity (reduces area of myocardial infarction)** 16555, 20094.
- Cardiovascular activity (reduces consumption of oxygen in myocardium)** 4645, 5763, 14796, 18826.
- Cardiovascular activity (reduces myocardial contractility)** 15396, 18826.
- Cardiovascular activity (reduces resistance of cerebral blood vessels)** 19587.
- Cardiovascular activity (reduces scleratheroma incidence)** 4245.
- Cardiovascular activity (slows heart rate and enhances amount of urine)** 1866.
- Cardiovascular activity (slows heart rate and enhances myocardial contractility)** 9233.
- Cardiovascular activity (slows heart rate)** 554, 983, 1658, 2300, 4912, 7343, 7980, 9232, 11680, 15708, 18165, 18826, 19473, 20061, 20254, 21511.
- Cardiovascular activity (slows heart rate, increases output blood pressure, blood flow in aorta and myocardial contractility)** 9235.
- Cardiovascular activity (stimulates atrium)** 19198.
- Cardiovascular activity (stimulates heart)** 4108, 5445, 20069, 20077, 20100.
- Cardiovascular activity (stimulates heart)** 3588.
- Carminative** 1186, 3237.
- Catechol-*O*-methyltransferase inhibitor** 8278.
- Cathartic** 136, 6262, 13801, 17411, 17413, 17417.
- Causes abortion** 3498.
- Causes acute glomerulus necrosis** 1713.
- Causes allergic reaction (hmn skin)** 19779.
- Causes arrhythmia** 304, 1738, 10875.
- Causes arrhythmia and bradycardia** 8353.
- Causes asthma and nasitis** 17561.
- Causes asthma, convulsion and breath faintness** 22360.
- causes bleeding** 4140, 5440, 15633.
- Causes blistering in cuticle** 18545.
- Causes chronic ammonia toxicosis** 5351.
- Causes conjunctivitis** 18426.
- Causes contact dermatitis** 1789, 2890, 3695, 4087, 4128, 4584, 8997, 16598, 16674, 18257, 18426, 21207, 21974, 22142, 22274.
- Causes convulsion and paralysis** 12562.
- Causes dermatitis** 21402.
- Causes epilepsy** 4051.
- Causes glucopenia and "vomiting sickness"** 10898.
- Causes goitre** 17903.
- Causes hmn mammary diseases** 21507.
- Causes hypoglycemia** 14358, 21662.
- Causes involuntary repetitive movement** 3692.
- Causes liver injury** 4140.
- Causes mental illness** 6418, 13795, 14583.
- Causes methaemoglobin disease in cattles** 14885.
- Causes miosis** 1654, 1658, 7298, 17253, 17360.
- Causes paralysis, paroxysmal spasm, convulsion and death** 7706.
- Causes paralysis** 4377, 19223.
- Causes paroxysm convulsion and breath inhibition** 5035.
- causes Phalaris blind stagger (sheep)** 8971.
- Causes plant to be infected by *Agrobacterium tumefaciens*** 116.
- Causes progressive paralysis of CNS** 9233.
- Causes pulmonary heart disease** 19902.
- Causes selenium poisoning** 19691.
- Causes slight shrinkage of liver** 4329.
- Causes St. George disease (ox)** 19902.
- Causes strong convulsion** 3002.
- Causes tachycardia** 1134.
- Causes tetanic coma** 2734.
- Cell cycle inhibitor** 2021.

- Cell division arrester** 6939, 12130, 12131, 16365.
- Cell growth inhibitor** 8095, 8276.
- Cell growth regulator** 3275, 22408.
- Cell viability** 8788, 12982, 12983.
- Central muscle relaxant** 2791.
- Choleretic** 117, 834, 1742, 1935, 2102, 2106, 2224, 2303, 2538, 2887, 3118, 3551, 3695, 4135, 4245, 4249, 4398, 4564, 5161, 8095, 8273, 9498, 9749, 11428, 13481, 15184, 15279, 16439, 16439, 16623, 16623, 16770, 17983, 19473, 19473, 19540, 20732, 20732, 20734, 22269, 22269, 22346, 22397.
- Cholineoid action** 15126.
- Cholinergic** 1658, 5201, 5219.
- Cholinesterase activator** 1036.
- Cholinesterase inhibitor** 6853, 7379, 7380, 8083, 9686, 9687, 10601, 13236, 13255, 14971, 16555, 17253, 19639, 21434, 22349.
- Cholinomimetic** 1658.
- Chymotrypsin inhibitor** 13563, 13564, 13565.
- Chymotrypsin inhibitor inactive** 9561.
- CNS active** 3147, 3860, 4118, 4120, 7521, 8251, 9232, 11636, 11679, 12908, 16761, 16762, 18114, 20577, 22145.
- CNS depressant** 569, 669, 706, 983, 1039, 1191, 1654, 1824, 2016, 2114, 3502, 3637, 3907, 3915, 5248, 6656, 6708, 7517, 7523, 8524, 9553, 9631, 10886, 11477, 11869, 13481, 13630, 13795, 14865, 15070, 15126, 16009, 17007, 17065, 17572, 19041, 19057, 19473, 19903, 20002, 20076, 20307, 20444, 21263, 21292, 21372, 21877, 21887, 21991, 22151, 22314, 22490, 22502, 22818.
- Coagulant** 3615.
- Cockroache killer** 2298, 15490, 17332, 17334, 17335, 17336, 18270.
- Coenzyme** 22554, 22556.
- Coenzyme of amino transferase, decarboxylase, racemase and some other amino acids** 18261.
- Coenzyme of energy transfer in phosphate bonds** 626.
- Collagenase inhibitor** 7441.
- Component of artificial calculus bovis** 2374.
- Component of coconut flavorant** 15680.
- component of coenzyme I and II** 15526.
- Components of plant epicyte** 2596, 3040.
- Contraceptive** 1710, 3457, 6495, 12925, 18841.
- Controls dormancy of common yam** 2163, 2166.
- Controls growth of *Hepatica lunularia*** 13084.
- Convulsant** 6552, 12562, 16746.
- corrosion** 7882.
- Curare component in cucurbit** 2959.
- Curare main component in cucurbit** 4377.
- Curariform action** 2042, 6699, 7325, 7328, 7330, 12571, 13373, 13374, 13716.
- Curtials the time of blood clotting and bleeding** 3551.
- Cuticle cornification promoter** 1853.
- Cycloadenyl mononucleotide phosphodiesterase inhibitor** 1621, 9331.
- Cyclonucleotide phosphodiesterase inhibitor** 710, 4376, 9543, 15278, 18864.
- Cyclooxygenase inhibitor** 3188, 7819, 8081, 8395.
- CYP2D6 inhibitor inactive** 7105, 7106, 8395, 8397, 9664, 9668, 12024, 12025, 12026, 12035, 12036, 12082, 19846, 19983, 19987, 21600, 22984, 22985.
- CYP3A4 inhibitor** 1834, 3851, 4307, 4308, 4309, 4310, 5543, 5561, 5572, 7105, 7106, 7114, 7400, 8395, 8396, 8397, 9664, 9668, 9949, 12024, 12025, 12026, 12035, 12036, 12037, 12044, 12070, 12099, 13261, 13391, 13640, 13898, 14264, 16340, 19846, 19847, 21345, 21392, 21392, 21928, 22984, 22985.
- CYP3A4 inhibitor and CYP2D6 inhibitor** 1834, 3851, 4307, 4308, 4309, 4310, 5543, 5561, 5572, 7114, 7400, 8396, 9949, 12037, 12044, 12070, 12099, 13391, 13640, 13898, 14264, 16340, 18423, 18423, 19847, 21345, 21928.
- CYP3A4 inhibitor inactive** 12082, 19983, 19987, 21600.
- Cytochrome CyP1A inhibitor** 8278, 11152, 11154, 11158, 11165, 11171, 11172.
- Cytochrome P450 (CYP3A4) inducer** 10883.
- Cytochrome P-450inhibitor** 17247.
- Cytostatic/cytotoxic** 5185, 5186.
- Cytotoxic (*in vitro*) summary index** 8, 24, 51, 76, 78, 84, 90, 150, 159, 175, 225, 226, 228, 240, 248, 251, 265, 266, 332, 349, 370, 378, 463, 472, 492, 512, 526, 530, 531, 576, 577, 579, 585, 589, 594, 595, 597, 598, 607, 610, 696, 777, 837, 843, 846, 911, 912, 913, 914, 915, 919, 924, 941, 955, 993, 1008, 1010, 1012, 1030, 1136, 1137, 1138, 1177, 1245, 1275, 1276, 1277, 1294, 1295, 1296, 1297, 1302, 1303, 1304, 1305, 1306, 1308, 1310, 1311, 1312, 1313, 1319, 1320, 1321, 1322, 1324, 1325, 1359, 1367, 1372, 1373, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1460, 1470, 1471, 1472, 1492, 1508, 1552, 1570, 1571, 1575, 1576, 1578, 1581, 1583, 1617, 1621, 1625, 1650, 1651, 1652, 1679, 1691, 1748, 1764, 1765, 1768, 1789, 1792, 1845, 1856, 1860, 1863, 1864, 1885, 1913, 1914, 1924, 1925, 1926, 1961, 1971, 1992, 2005, 2006, 2034, 2047, 2073, 2082, 2102, 2106, 2109, 2119, 2130, 2172, 2219, 2227, 2244, 2257, 2259, 2260, 2261, 2262, 2303, 2304, 2312, 2334, 2338, 2339, 2340, 2468, 2492, 2493, 2495, 2498, 2499, 2500, 2527, 2528, 2529, 2590, 2601, 2604, 2619, 2625, 2630, 2635, 2647, 2648, 2652, 2653, 2654, 2655, 2656, 2660, 2661, 2664, 2676, 2677, 2684, 2694, 2716, 2722, 2735, 2736, 2769, 2810, 2811, 2824, 2826, 2830, 2856, 2857, 2946, 2948, 2950, 2952, 2956, 2957, 2958, 2964, 2985, 2990, 2991, 2998, 3012, 3014, 3015, 3016, 3018, 3019, 3020, 3021, 3022, 3053, 3060, 3063, 3071, 3072, 3076, 3087, 3088, 3096, 3097, 3126, 3143, 3181, 3227, 3228, 3229, 3230, 3241, 3257, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3266, 3267, 3268, 3271, 3274, 3292, 3293, 3294, 3296, 3300, 3303, 3308, 3324, 3325, 3368, 3388, 3402, 3405, 3406, 3412, 3416, 3429, 3457, 3467, 3476, 3481, 3498, 3499, 3502, 3513, 3514, 3515, 3548, 3551, 3553, 3555, 3565, 3568, 3573, 3576, 3580, 3581, 3582, 3583, 3600, 3602, 3626, 3667, 3668, 3708, 3710, 3724, 3729, 3732, 3745, 3748, 3777, 3778, 3784, 3816, 3821, 3829, 3868, 3869, 3906, 3911, 3920, 3921, 3936, 3940, 3974, 3975, 4046, 4048, 4081,

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- Cytotoxic inactive, 1A9** 14934, 14935.
- Cytotoxic inactive, 3LL** 7998, 11569, 14697.
- Cytotoxic inactive, 59 NCI hmn cancer cell lines except HL-60 cell** 17727.
- Cytotoxic inactive, 9KB cells** 22195.
- Cytotoxic inactive, A2780 cells** 1107, 1113, 3125, 3127, 4281, 7025, 7366, 7367, 7764, 8939, 8942, 8944, 10052, 12107, 13097, 16050, 16415, 19220, 20369, 20711, 20712.
- Cytotoxic inactive, A375 cells** 11799.
- Cytotoxic inactive, A498 cells** 1067, 3571, 4722, 4762, 9812, 9961, 20722, 20739, 20765, 20803, 22630, 22781.
- Cytotoxic inactive, A549 cells** 519, 984, 1067, 1367, 1699, 1713, 1718, 1725, 1728, 2856, 3266, 3267, 3268, 3271, 3695, 3829, 3831, 3932, 4169, 4170, 4189, 4310, 4690, 4722, 4762, 4763, 4957, 5062, 5344, 5367, 5368, 5369, 6708, 6761, 7572, 7575, 7777, 7788, 7788, 7788, 7789, 7951, 8027, 8028, 8327, 8328, 9035, 9812, 9961, 10052, 10381, 10558, 12397, 12398, 12587, 12589, 13537, 13674, 13871, 13903, 14072, 14437, 14438, 14439, 14484, 15082, 15249, 15621, 16343, 16402, 19571, 19622, 19690, 19981, 19983, 19983, 19985, 20237, 20356, 20362, 20554, 20739, 20765, 20803, 22299, 22332, 22630, 22781, 22988.
- Cytotoxic inactive, ACHN cells** 3355.
- Cytotoxic inactive, AGS cells** 2101, 12936.
- Cytotoxic inactive, assay to screen for inhibitors of cell division,**
- Xenopus* cells from early *Xenopus laevis* embryo at blastular stage** 12139, 12137.
- Cytotoxic inactive, ATCC: CCRF-CEM murine leukemia cells** 1136, 1137, 1138.
- Cytotoxic inactive, B16 cells** 492, 6427, 6430, 7205, 9474, 9475, 16818, 16819, 16820, 18697, 20697, 20699, 20701, 20702, 21027, 22497.
- Cytotoxic inactive, B16(F-10) cells** 984, 3932, 4169, 4170, 16402, 18945, 18946, 18947, 18948, 18949.
- Cytotoxic inactive, BC cells** 14915, 17846, 17847.
- Cytotoxic inactive, BC-1 cells** 7764, 2048, 3292, 3940, 3941, 8219, 10296, 10510, 13484, 13487, 18682, 21358, 5276.
- Cytotoxic inactive, BCA-1 cells** 13464, 13472, 13467.
- Cytotoxic inactive, Bcap37 cells** 11394, 12536.
- Cytotoxic inactive, Bel7402 cells** 465, 2254, 4987, 5344, 5867, 5975, 5976, 6327, 6689, 7540, 8528, 9629, 10485, 10815, 10816, 10817, 14042, 14168, 16050, 21031, 21640, 22011, 22013.
- Cytotoxic inactive, Bel7405 cells** 8632, 11201.
- Cytotoxic inactive, BGC823 cells** 6689, 8528, 13693, 13699, 13702, 13703, 13704, 13706, 13707, 20811.
- Cytotoxic inactive, BL6 cells** 1532.
- Cytotoxic inactive, Bowes cells** 3695, 10381, 15621.
- Cytotoxic inactive, Bre04 cells** 14847, 14848, 14849.
- Cytotoxic inactive, BST assay** 247, 2091, 2092, 6267, 10207, 10505, 221, 223, 1819, 1820, 1821, 2260, 3153, 5936, 8211, 10510, 14995, 15038, 20803, 21082, 21125, 22551.
- Cytotoxic inactive, BST cells** 2346, 8325, 10126.
- Cytotoxic inactive, BT474 cells** 2251, 2618, 5944, 7122, 10306, 12413, 12415, 12416, 17118.
- Cytotoxic inactive, BT549 cells** 11636, 22205, 22206, 22206.
- Cytotoxic inactive, BXP3 cells** 2102, 2106.
- Cytotoxic inactive, CA cells** 18499.
- Cytotoxic inactive, CAKI cells** 14934.
- Cytotoxic inactive, Calu1 cells** 1764, 3319, 3615, 11191, 11192, 13098, 16665, 20369, 20711, 21713, 22378, 22379.
- Cytotoxic inactive, Capan1 cells** 2101.
- Cytotoxic inactive, Capan2 cells** 2101, 12936.
- Cytotoxic inactive, CaSki cells** 6490.
- Cytotoxic inactive, CCM2 cells** 13023, 13038.
- Cytotoxic inactive, CEM cells** 16550.
- Cytotoxic inactive, CHAGO cells** 248, 2251, 2618, 5944, 7122, 10306, 12413, 12415, 12416, 17118.
- Cytotoxic inactive, Chinese hamster ovarian CHO cells** 21475.
- Cytotoxic inactive, Col2 cells** 175, 1864, 1865, 1885, 2048, 2259, 2765, 2766, 2767, 3982, 4281, 5075, 5387, 5536, 5931, 6066, 6067, 6090, 6500, 9504, 9507, 9546, 10296, 10446, 10512, 10769, 11477, 12179, 13464, 13467, 13468, 13845, 16415, 16854, 16855, 18682, 19220, 21135, 21137, 21410, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807.
- Cytotoxic inactive, Colon205 cells** 901, 2309, 2830, 3778, 5522, 6017, 7699, 10380, 10414, 10467, 11001, 11600, 11601, 13041, 14776, 16261, 16725, 18222, 18998, 19542, 19790, 20465, 22270, 22774.
- Cytotoxic inactive, Colon26-L5 cells** 3014, 3980, 4135, 4788, 4900, 4936, 5788, 9626, 9627, 9628, 9815, 10099, 10411, 14500, 14613,

- 15351, 15443, 16221, 16222, 16230, 16231, 16232, 20840, 20877, 21529.
- Cytotoxic inactive, COS-7 cells** 10732, 8576, 8577, 8578, 8579, 8580.
- Cytotoxic inactive, DLD-1 cells** 3241.
- Cytotoxic inactive, DU145 cells** 5706, 7998, 14697.
- Cytotoxic inactive, EAC cells** 12622.
- Cytotoxic inactive, fibroblasts in normal hmn** 3241.
- Cytotoxic inactive, FM3A cells** 5042, 15719.
- Cytotoxic inactive, GLC4 cells** 16725.
- Cytotoxic inactive, HCC2998 cells** 5706.
- Cytotoxic inactive, HCT cells** 6785.
- Cytotoxic inactive, HCT116 cells** 5706, 12310, 15242, 17872.
- Cytotoxic inactive, HCT15 cells** 3571, 12541, 19622.
- Cytotoxic inactive, HCT8 cells** 8939, 8942, 8944, 14935.
- Cytotoxic inactive, HeLa cells** 465, 901, 1022, 1624, 1764, 2021, 2309, 2473, 2833, 3319, 3615, 3908, 4046, 4283, 4987, 5522, 5570, 5607, 5701, 5795, 5867, 5975, 5976, 6017, 6338, 6427, 6430, 6689, 7205, 9406, 9509, 10374, 10380, 10414, 10467, 10483, 10485, 10595, 11001, 11191, 11192, 11265, 11266, 11392, 11595, 11600, 11601, 11799, 12512, 13041, 13098, 13123, 13197, 13198, 13199, 14042, 14737, 14776, 15635, 15910, 16050, 16261, 16665, 16873, 17244, 17611, 17612, 17615, 18222, 18224, 18499, 18697, 18945, 18946, 18947, 18948, 18949, 18950, 18998, 19174, 19540, 19542, 20369, 20465, 20697, 20699, 20700, 20701, 20702, 20711, 21713, 22378, 22379, 22497, 22774, 22962.
- Cytotoxic inactive, HeLa-S3 cells** 10732, 13166, 13167, 8579, 8580, 8576, 8577, 8578, 8360, 8361, 8363, 8364, 8365.
- Cytotoxic inactive, HEp2 cells** 11265, 11722.
- Cytotoxic inactive, Hep3B cells** 901, 2824, 2826, 3778, 5179, 5180, 5367, 5368, 5369, 6017, 7043, 8938, 10380, 10414, 10467, 11600, 13041, 14776, 14940, 14942, 18222, 18998, 19542, 19790, 20465, 22270.
- Cytotoxic inactive, Hepa cells** 12622.
- Cytotoxic inactive, Hepa1c1c7 cells** 17715.
- Cytotoxic inactive, HEPA59T/VGH cells** 11945, 11950, 11952.
- Cytotoxic inactive, HepG cells** 8669, 8670, 8671, 13328.
- Cytotoxic inactive, HepG2 cells** 8, 248, 2251, 2618, 3308, 3544, 3615, 3619, 3908, 5179, 5180, 5368, 5570, 5607, 5701, 5795, 5944, 6776, 6778, 6779, 7043, 7122, 8935, 8936, 8938, 10306, 10483, 12413, 12415, 12416, 12512, 16169, 17118, 17247, 21475, 22962.
- Cytotoxic inactive, HGF cells** 414, 477, 512, 579, 993, 1177, 1580, 1581, 1583, 1584, 1585, 1586, 1587, 1591, 2309, 3659, 3667, 3668, 3669, 5150, 5774, 5775, 5776, 5781, 5790, 5815, 5816, 5817, 5912, 5913, 5982, 5983, 6176, 7657, 9857, 9905, 10717, 10718, 10721, 14638, 15040, 15042, 15046, 15054, 15055, 15056, 15279, 17696, 18916, 19255, 19256, 19257, 19259, 19268, 20105, 20106, 21170, 21864, 22667.
- Cytotoxic inactive, HL-60 cells** 465, 1476, 2101, 2309, 4689, 4690, 4940, 4987, 5344, 5652, 5703, 5864, 5865, 5867, 5934, 5975, 5976, 6578, 6689, 6760, 6761, 6942, 8528, 8576, 8577, 8578, 8579, 8580, 9423, 9629, 10279, 10280, 10485, 10732, 11595, 11601, 12070, 14042, 16050, 18931, 19349, 19350, 20068, 21105, 21711, 21857, 22287, 22774.
- Cytotoxic inactive, HM02 cells** 6778, 3308, 3544, 3619, 6779, 17247, 3615, 6776, 16169.
- Cytotoxic inactive, HMEC cells** 9199.
- Cytotoxic inactive, HO-8910 cells** 236, 5648, 5689, 6114, 8632, 10020, 11201.
- Cytotoxic inactive, HOCR5 cells** 6090.
- Cytotoxic inactive, HONE-1 cells** 174, 252, 2415, 4648, 6477, 8948, 9452, 9698, 9700, 9701, 9815, 9944, 11234, 13943, 14254, 15249, 16906, 17871, 18420, 19983, 19987, 20493, 20554, 22195, 23029.
- Cytotoxic inactive, Hs578T cells** 5580.
- Cytotoxic inactive, Hs742T cells** 5343, 5580, 5621, 20122.
- Cytotoxic inactive, HSC-2 cells** 414, 477, 993, 1505, 1506, 1507, 1509, 1580, 1584, 1585, 1586, 1587, 1591, 2309, 3659, 3669, 5150, 5774, 5775, 5776, 5781, 5790, 5815, 5816, 5817, 5912, 5913, 5982, 5983, 6176, 7130, 7134, 7135, 7137, 7138, 7657, 8657, 8658, 8659, 8660, 8693, 8698, 8748, 9857, 10718, 10721, 12481, 13058, 13059, 13060, 14638, 15040, 15042, 15046, 15054, 15055, 15056, 15057, 15279, 17696, 18916, 19255, 19256, 19259, 19268, 19522, 19523, 20105, 20106, 21170, 21864, 22667.
- Cytotoxic inactive, HSG cells** 15040, 15042, 15046, 15054, 15055, 15056, 19255, 19256, 19257, 19259, 19268, 20105, 20106.
- Cytotoxic inactive, HT1080 cells** 3980, 4135, 4788, 4936, 5548, 5779, 5788, 6954, 9626, 9627, 9815, 10099, 10100, 10411, 10412, 11504, 14500, 14613, 15443, 15796, 16221, 16222, 16229, 16230, 16231, 19618, 20840, 20877, 21529.
- Cytotoxic inactive, HT29 cells** 174, 252, 1067, 1621, 2856, 3266, 3267, 3268, 3271, 5373, 5374, 5375, 6289, 6477, 6708, 6760, 6761, 7043, 7788, 8027, 8028, 8824, 9035, 10187, 10747, 13674, 14072, 14484, 18588, 19690, 19981, 19983, 19985, 20237, 20356, 20362, 20554, 20643, 22332, 22781.
- Cytotoxic inactive, hTERT-RPE1 cells** 5931, 6066, 6067, 9504, 9507, 10512, 12179, 16854, 16855, 21135, 21137, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807.
- Cytotoxic inactive, HUVEC cells** 1864, 1865, 1885, 2259, 2259, 3982, 5387, 5387, 5401, 5931, 6042, 6066, 6067, 6090, 9504, 9507, 9507, 9546, 10512, 12179, 13845, 16854, 16855, 21135, 21137, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807.
- Cytotoxic inactive, inhibition assay of hmn tumor cell replication** 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113.
- Cytotoxic inactive, Jurkat-T cells** 2101, 2591, 2592, 2593, 11262, 11263, 11264, 12936.
- Cytotoxic inactive, K562 cells** 492, 984, 1764, 2101, 3319, 3615, 3615, 3695, 3932, 4169, 4170, 6204, 6776, 6791, 6792, 7998, 9081, 9082, 10068, 10381, 11191, 11192, 11265, 12590, 13067, 13068, 13069, 13070, 13098, 14697, 15621, 16177, 16402, 16665, 18697, 18978, 19983, 20369, 20711, 21713, 21845, 22378, 22379, 22748, 22792, 22800, 22801, 22803.
- Cytotoxic inactive, K562/ADM cells** 492, 18697.
- Cytotoxic inactive, Kato3 cells** 248, 2251, 2618, 5944, 7016, 7122, 10306, 12413, 12415, 12416, 17118.
- Cytotoxic inactive, KB ATCC CCL17 cells** 5794.
- Cytotoxic inactive, KB cells** 89, 174, 252, 266, 675, 901, 1372, 1745, 1865, 2048, 2259, 2384, 2591, 2592, 2593, 2765, 2766, 2767, 2824, 2826, 2945, 3292, 3429, 3940, 3941, 3982, 4281, 4624, 5075, 5276,

- 5387, 5522, 5931, 6017, 6066, 6067, 6090, 6477, 6515, 6689, 6761, 7190, 7191, 7582, 7764, 8219, 8528, 8939, 8942, 8944, 9199, 9504, 9507, 9546, 9564, 10159, 10206, 10296, 10380, 10414, 10446, 10467, 10510, 10512, 10910, 10911, 10912, 11079, 11262, 11263, 11264, 11477, 11600, 11636, 12179, 12453, 13038, 13041, 13467, 13468, 13484, 13487, 13491, 14775, 14776, 14846, 14915, 15118, 16050, 16415, 16748, 16754, 16854, 16855, 16867, 16966, 17846, 17847, 17852, 18425, 18682, 18697, 18998, 19220, 19536, 19540, 19542, 20369, 20465, 20797, 20798, 20811, 20836, 20849, 20850, 20851, 21135, 21137, 21358, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807, 22205, 22206, 22206, 22270, 22413, 22544, 22545, 22546, 22547.
- Cytotoxic inactive, KB16 cells** 11945, 11950, 11952.
- Cytotoxic inactive, KB-VI cells** 7764.
- Cytotoxic inactive, KB-VIN cells** 14934.
- Cytotoxic inactive, L₁₂₁₀ cells** 6478, 6617, 7998, 8439, 10089, 10364, 11569, 12639, 12640, 13014, 13015, 13591, 14697, 15483, 15931, 16050, 20797.
- Cytotoxic inactive, L-5178Y cells** 22408.
- Cytotoxic inactive, L6(=L-6) cells** 580, 815, 816, 1241, 1784, 1937, 1939, 2004, 2346, 2683, 2920, 2924, 3166, 3306, 3551, 3609, 3674, 4478, 5675, 6776, 7925, 8325, 9750, 10159, 11148, 11195, 12916, 14222, 16067, 16068, 18221, 19568, 19960.
- Cytotoxic inactive, L-929 cells** 11799.
- Cytotoxic inactive, leukemia cells** 6741.
- Cytotoxic inactive, LLC cells** 8150, 8166, 8168, 8186, 8188, 8189, 11277, 13019.
- Cytotoxic inactive, LNCaP cells** 266, 1864, 1865, 1885, 2048, 2765, 2766, 2767, 3982, 4281, 4680, 5075, 5931, 6066, 6067, 6090, 7788, 8814, 9504, 9546, 10296, 10446, 10512, 10871, 11477, 12179, 13845, 14114, 14226, 14228, 14300, 14643, 14846, 15944, 15945, 15946, 15951, 16415, 16854, 16855, 18682, 19087, 19220, 19983, 21037, 21135, 21137, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807, 22332.
- Cytotoxic inactive, LNCaP-FGC cells** 5343, 5580, 5621, 8278, 18700, 18701, 20117, 20122, 20129.
- Cytotoxic inactive, LO2 hmn liver cells** 5648.
- Cytotoxic inactive, LOX-IMVI cells** 984, 3355, 3932, 4169, 4170, 16402.
- Cytotoxic inactive, Lu04 cells** 14847, 14848, 14849.
- Cytotoxic inactive, Lu1 cells** 266, 1864, 1865, 1885, 2048, 3982, 4281, 5931, 6066, 6067, 6090, 9504, 9507, 9546, 10296, 10512, 12179, 13464, 13467, 13468, 13472, 13845, 14846, 16415, 16854, 16855, 18682, 19220, 21135, 21137, 21755, 21758, 21798, 21801, 21804, 21805, 21806, 21807.
- Cytotoxic inactive, mammalian cell lines** 11636, 18114.
- Cytotoxic inactive, McCoy cells** 13902.
- Cytotoxic inactive, MCF cells** 3308, 3544, 3615, 3619, 6776, 6778, 6779, 16169, 17247.
- Cytotoxic inactive, MCF7 cells** 1067, 1621, 1699, 1713, 1718, 1725, 1728, 3159, 3695, 3829, 3831, 4189, 4416, 4957, 5062, 5179, 5180, 5367, 5368, 5369, 5373, 5374, 5375, 6162, 6490, 6689, 7043, 7777, 7788, 7788, 7998, 8569, 8932, 8933, 8935, 8936, 8938, 9535, 9564, 10187, 10381, 10747, 10751, 11890, 12448, 13871, 13903, 13935, 13936, 13943, 14115, 14697, 15249, 15621, 16050, 18588, 19571, 19983, 21709, 21856, 22830.
- Cytotoxic inactive, MCF7/ADM cells** 22830.
- Cytotoxic inactive, MCF7-ras cells** 6490.
- Cytotoxic inactive, MDA231 cells** 4913.
- Cytotoxic inactive, MDA-MB-231 cells** 5179, 5180, 5367, 5368, 5369, 6162, 7699, 8935, 8938, 9564, 10751, 12448, 13903, 13943, 21709, 21856.
- Cytotoxic inactive, Meth-A cells** 8150, 8166, 8168, 8189.
- Cytotoxic inactive, MH-60 cells** 2716, 2722, 3729, 3732, 5237, 5238, 5239, 7190, 7191, 8121, 9859, 9861, 9917, 9918, 9993, 10672, 10673, 16296, 20911.
- Cytotoxic inactive, MI4 cells** 3355.
- Cytotoxic inactive, MK1 cells** 18945, 18946, 18947, 18948, 18949.
- Cytotoxic inactive, MKN-28 cells** 19349, 19350.
- Cytotoxic inactive, MRC-5 cells** 19891.
- Cytotoxic inactive, MT-4 cells** 11843, 11844, 11845, 11846, 11847, 16652, 16653, 19652, 19653, 19654, 19655, 19656.
- Cytotoxic inactive, MTT antiproliferative assay, B16F10, HeLa, MK1 cells** 18945, 18946, 18947, 18948, 18949.
- Cytotoxic inactive, myosarcoma cells** 2591, 2592, 2593, 11262, 11263, 11264.
- Cytotoxic inactive, N04 cells** 14847, 14848, 14849.
- Cytotoxic inactive, NCF-7 cells** 5532.
- Cytotoxic inactive, NCI-H1417 cells** 2101, 12936.
- Cytotoxic inactive, NCI-H187 cells** 422, 422, 3941, 6183, 6298, 8032, 8219, 8325, 10250, 13491, 14321, 21358.
- Cytotoxic inactive, NCI-H226 cells** 4722, 4762, 9812, 9961, 20739, 20765, 20803, 22630.
- Cytotoxic inactive, NCI-H23 cells** 3355.
- Cytotoxic inactive, NCI-H266 cells** 5706.
- Cytotoxic inactive, NCI-H446 cells** 12397, 12398, 22299, 22988.
- Cytotoxic inactive, NCI-H460 cells** 7699, 8569.
- Cytotoxic inactive, no explanation on cell species** 163, 1161, 1992, 2286, 3159, 3429, 5303, 5518, 6409, 6490, 6490, 6490, 6490, 8107, 9474, 9475, 12048, 13965, 14101, 15152, 16818, 16819, 16820, 17872, 18359, 21027, 21724, 16199, 17196, 17198, 17197, 17199.
- Cytotoxic inactive, NSCLC-N6 cells** 2331, 10342, 11978, 13097, 13098, 16373.
- Cytotoxic inactive, NUGC cells** 3555, 4648, 8948, 9452, 9698, 9700, 9701, 9815, 9944, 10343, 11234, 13943, 14254, 18420, 19983, 19987, 20554, 22195, 22460.
- Cytotoxic inactive, NUGC-3 cells** 23029, 2415, 15249, 16906, 17871, 20493.
- Cytotoxic inactive, NUGC-4 cells** 6621, 7016, 11405.
- Cytotoxic inactive, OVCAR-3 cells** 2101, 3908, 5570, 5607, 5701, 5795, 10483, 12512, 12936, 20070.
- Cytotoxic inactive, P₃₈₈ cells** 194, 215, 492, 2309, 3292, 4281, 4689, 5194, 5344, 5492, 5496, 5886, 5887, 6708, 7571, 7572, 7575, 8439, 10510, 11001, 11601, 11853, 11857, 11859, 13464, 13467, 13472, 13674, 14072, 14437, 14484, 16415, 18697, 19690, 19981, 20237, 20356, 20362, 20554, 22332, 22736, 22774.

- Cytotoxic inactive, P₃₈₈/ADM cells 18697.
- Cytotoxic inactive, PACA-2 cells 1067.
- Cytotoxic inactive, PANC1 cells 2101, 12936.
- Cytotoxic inactive, PBMC cells 9488.
- Cytotoxic inactive, PC3 cells 984, 1067, 2101, 3932, 4169, 4170, 4722, 9812, 9961, 12936, 14934, 16402, 20739, 20765, 20803, 22630, 22781.
- Cytotoxic inactive, primary culture hmn PBMCs 11001, 16261.
- Cytotoxic inactive, PTX10 cells 14935.
- Cytotoxic inactive, Raji cells 1764, 3319, 3615, 11191, 11192, 13098, 16665, 20369, 20711, 21713, 22378, 22379.
- Cytotoxic inactive, RAW264.7 cells 5633, 5669, 7982, 7983, 7984, 7985, 11017.
- Cytotoxic inactive, RL33 cells 11978.
- Cytotoxic inactive, RXF-393 cells 3355.
- Cytotoxic inactive, S₁₈₀ cells 8150, 8166, 8168, 8186, 8189, 13019, 13020.
- Cytotoxic inactive, S₁₈₀A cells 12622.
- Cytotoxic inactive, SCL-6 cells 7016.
- Cytotoxic inactive, SF268 cells 7125, 7613, 7614, 8569, 11890.
- Cytotoxic inactive, SF539 cells 5706.
- Cytotoxic inactive, SGC7901 cells 19349, 19350.
- Cytotoxic inactive, SiHa cells 6490, 12541.
- Cytotoxic inactive, SK-MEL cells 11636, 22205, 22206, 22206.
- Cytotoxic inactive, SK-MEL-2 cells 19622, 984, 3932, 4169, 4170, 16402.
- Cytotoxic inactive, SK-MES-1 cells 12397, 22299, 22988.
- Cytotoxic inactive, SK-OV-3 cells 11636, 16370, 19622, 22205, 22206, 22206.
- Cytotoxic inactive, SMMC-7721 cells 236, 5648, 5689, 6114, 6427, 6430, 7205, 10020, 20697, 20699, 20700, 20701, 20702, 22497, 22497.
- Cytotoxic inactive, SNU-1 cells 18088.
- Cytotoxic inactive, SNU-16 cells 18088.
- Cytotoxic inactive, SR cells 3355.
- Cytotoxic inactive, SW620 cells 248, 2251, 2618, 5944, 7122, 10306, 12413, 12415, 12416, 17118.
- Cytotoxic inactive, T24 cells 12588.
- Cytotoxic inactive, T24S cells 3695, 10381, 15621, 19571, 19983.
- Cytotoxic inactive, T47D cells 2101, 6162, 8150, 8166, 8168, 8186, 8189, 9564, 10751, 12448, 12936, 13019, 21709, 21856.
- Cytotoxic inactive, U251 cells 7998, 14697.
- Cytotoxic inactive, U-87-MG cells 14934.
- Cytotoxic inactive, U937 cells 465, 4987, 5867, 5975, 5976, 10485, 14042.
- Cytotoxic inactive, Vero cells 24, 26, 330, 509, 510, 511, 1764, 3319, 3615, 3940, 3941, 7897, 7907, 11129, 11191, 11192, 11636, 12489, 13098, 13108, 14217, 14840, 14842, 15134, 16665, 17574, 19795, 19796, 20369, 20711, 21713, 22205, 22206, 22206, 22378, 22379.
- Cytotoxic inactive, WI-38 cells 11595, 21498.
- Cytotoxic inactive, WiDr cells 2101, 12936.
- Cytotoxic inactive, Wish cells 1764, 3319, 3615, 11191, 11192, 13098, 16665, 20369, 20711, 21713, 22378, 22379.
- Cytotoxic inactive, yeast assay, no selective DNA-damaging, RS321NpRAD52(gal) 4970, 11344, 20316, 12917.
- Cytotoxic inactive, yeast assay, no selective DNA-damaging, RS321NYCp50(gal) 4970, 11344, 20316, 12917.
- Cytotoxic, 1,3,8-trihydroxy for anthraquinone plays a significant role in the cytotoxic activity 6776, 20010.
- Cytotoxic, 212 cells 1992, 6490, 8520, 11977, 17872.
- Cytotoxic, 39 kinds of hmn cancer cell lines 1625.
- Cytotoxic, 3LL mus Lewis lung cancer cells 19516, 19517, 19524, 19525, 19526, 22281.
- Cytotoxic, 780-6 renal cancer cells 3583.
- Cytotoxic, 9KB hmn epidermatoid nasopharyngeal carcinoma cells 2735, 10126, 11978, 16414, 17240.
- Cytotoxic, 9L rat glioma cells 2303.
- Cytotoxic, 9PS mouse lymphleukemia cells 2735, 16021, 16022, 16023, 17240.
- Cytotoxic, a promising lead as potential cancer chemopreventive agents 51, 5746, 8262, 11490, 11504, 11804, 18547.
- Cytotoxic, A2780 hmn ovarian cancer cells 1576, 3126, 6044, 6045, 8054, 8065, 8940, 9089, 9090, 9388, 11783, 11783, 12108, 12109, 12110, 17622, 17623, 20809, 21337, 21338, 22761, 22761, 22839.
- Cytotoxic, A375 hmn melanoma cells 919, 2492, 2493, 4046, 6437, 11800, 11801, 17654, 18056.
- Cytotoxic, A431 hmn epidermic cancer cells 9187, 15739, 15922, 17008, 19284.
- Cytotoxic, A498 hmn renal cancer cells 1297, 1303, 1304, 1305, 1320, 1321, 1322, 3457, 3583, 4763, 5706, 6827, 6828, 10558, 11269, 14906, 18211, 20720, 20721, 20811.
- Cytotoxic, A549 non-small cell lung cancer cells 150, 251, 577, 843, 1297, 1303, 1304, 1305, 1310, 1311, 1312, 1320, 1321, 1322, 1621, 1679, 1764, 1924, 1925, 1926, 2006, 2047, 2334, 2338, 2527, 2528, 2652, 2653, 2654, 2655, 2656, 2677, 2735, 2736, 2857, 3053, 3096, 3097, 3241, 3257, 3457, 3583, 3868, 3869, 3974, 3975, 4147, 4148, 4317, 4320, 4323, 4689, 4880, 4986, 5055, 5284, 5295, 5314, 5826, 5832, 6044, 6045, 6075, 6162, 6204, 6277, 6282, 6289, 6314, 6315, 6328, 6367, 6404, 6405, 6642, 6759, 6760, 6827, 6828, 6897, 7535, 7568, 7569, 7571, 7646, 7698, 7788, 8824, 8946, 9226, 9323, 9535, 9544, 9567, 9669, 9747, 9885, 10126, 10438, 11029, 11081, 11269, 11375, 11494, 11605, 12188, 12189, 12254, 12964, 13518, 13673, 13685, 13867, 13869, 14254, 14492, 14495, 14496, 14504, 14644, 14645, 14646, 14647, 14906, 14934, 14934, 14935, 14935, 15084, 15085, 15087, 15088, 15089, 15141, 15169, 15879, 15902, 16021, 16023, 16050, 16282, 16283, 16370, 16402, 16427, 16676, 16677, 16693, 17059, 17060, 17061, 17062, 17063, 17064, 17309, 17619, 18011, 18033, 18044, 18211, 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18778, 18892, 19427, 19516, 19517, 19524, 19525, 19526, 20002, 20244, 20363, 20540, 20641, 20643, 20644, 20679, 20680, 20681, 20720, 20721, 20722, 20811, 20811, 20811, 21709, 21924, 22208, 22208, 22209, 22451, 22458, 22923, 23013.
- Cytotoxic, ACHN hmn renal cancer cells 251, 2528, 4880, 5314, 5706, 7698, 20811, 20811.
- Cytotoxic, acts on calf thymus DNA 7704, 15631, 19284, 22232.
- Cytotoxic, acts on DNA topo II 843.
- Cytotoxic, against a series of tumor cell lines but did not show

- significant effects in clinical studies against solid tumors 2660.
- Cytotoxic, AGS gastric adenocarcinoma cells 3498, 17979.
- Cytotoxic, animal cap assay to screen for inhibitors of cell division 4820, 4821, 4822, 4825, 4826, 4827, 4828, 4829, 4838, 12138.
- Cytotoxic, animal model 8596, 8598, 8599.
- Cytotoxic, animal tumor and plant tumor 14705.
- Cytotoxic, antioxidant assay 1400, 2635, 6103, 8095, 14454, 20481, 20482.
- Cytotoxic, antiproliferation inactive 5528, 8665, 8677, 8678.
- Cytotoxic, antiproliferation inactive, Colon26-L5 15443, 16221, 16222, 16230, 16231, 16232.
- Cytotoxic, antiproliferation inactive, HT1080 15443, 15796, 16221, 16222, 16229, 16230, 16231.
- Cytotoxic, antiproliferative 2102, 2106, 3548, 3551, 4590, 5929, 6907, 7080, 9655, 10277, 10281, 10559, 12171, 12177, 12180, 12206, 14304, 14305, 15635, 18759, 19458, 19634, 20465, 20670, 20811, 21231, 22213, 22718.
- Cytotoxic, antiproliferative 1389, 1390, 1439, 1440, 14901, 15494.?
- Cytotoxic, antiproliferative inactive, HL-60 20068.
- Cytotoxic, antiproliferative, A-2780 11783, 22761.
- Cytotoxic, antiproliferative, AGS cells 3498.
- Cytotoxic, antiproliferative, B16(F-10), HeLa, MK1 18944, 18950, 18951, 18952, 18953.
- Cytotoxic, antiproliferative, calf pulmonary arterial endothelial cells CPAE 20900, 20901.
- Cytotoxic, antiproliferative, Col2 cells 240, 6064, 7204, 20610.
- Cytotoxic, antiproliferative, Colon26-L5 15796, 16229.
- Cytotoxic, antiproliferative, colorectal cancer cells 11783, 22761.
- Cytotoxic, antiproliferative, cytotoxicity of compounds was measured using the WST-8 proliferation reagent 7376, 21435.
- Cytotoxic, antiproliferative, HEK-293 1575, 3821, 8715, 18691, 18693, 18733, 22838.
- Cytotoxic, antiproliferative, hmn breast cancer cells 1399, 2635, 11783, 14961, 22761.
- Cytotoxic, antiproliferative, HT1080 cells 16232.
- Cytotoxic, antiproliferative, HTC cells 8148, 8149, 8159, 8160, 8161, 8174.
- Cytotoxic, antiproliferative, J774 macrophages 8662, 8717, 8718, 8749, 18690, 18692.
- Cytotoxic, antiproliferative, J774.A1 1575, 3821, 8715, 8716, 18691, 18693, 18733, 22838.
- Cytotoxic, antiproliferative, LoVo 3573, 6164, 6213, 19916.
- Cytotoxic, antiproliferative, LoVo/Doxo 3573, 6164.
- Cytotoxic, antiproliferative, lymphocytes 22015.
- Cytotoxic, antiproliferative, MCF7 3303, 3498.
- Cytotoxic, antiproliferative, MT2 3816.
- Cytotoxic, antiproliferative, MTT colorimetric assay 3816.
- Cytotoxic, antiproliferative, PC3 3498.
- Cytotoxic, antiproliferative, PMA-induced 17958.
- Cytotoxic, antiproliferative, six esophageal cancer cells 2303.
- Cytotoxic, antiproliferative, T-lymphoid leukemia cells 2102.
- Cytotoxic, antiproliferative, WEHI-164 1575, 3821, 8715, 8716, 18691, 18693, 22838.
- Cytotoxic, APM1840 hmn leukemia cells 17240.
- Cytotoxic, aromatase inhibitor 51, 846, 1402, 2635, 2647, 5746, 8262, 11490, 17403.
- Cytotoxic, arrests in the G2/M phase of cell cycle 5055.
- Cytotoxic, ascites carcinoma cells 17028, 18816.
- Cytotoxic, assay of larva of yellow fever mosquito 18240.
- Cytotoxic, B16 mouse melanoma cells 2304, 2811, 6221, 16599, 19143, 19143, 20700.
- Cytotoxic, B16(F-10) mouse melanoma cells 2334, 2338, 4147, 4148, 16050, 18944, 18950, 18951, 18952, 18953, 19516, 19517, 19524, 19525, 19526, 23013.
- Cytotoxic, *Bacillus coli*, *Bacillus subtilis* and nema 21328.
- Cytotoxic, BC hmn breast cancer cells 24, 349, 526, 2244, 3416, 3429, 3708, 4775, 5095, 6759, 6759, 6759, 12453, 12454, 15494, 15495, 18515, 20671.
- Cytotoxic, BC-1 hmn breast cancer cells 1277, 2260, 5064, 5327, 6759, 6759, 8220, 8221, 8222, 8235, 10250, 10297, 10511, 11353, 13489, 13490, 13491, 13492, 13493, 13494, 13495, 15919, 17008, 18866, 20809.
- Cytotoxic, BCA-1 hmn breast cancer cells 6759, 13468, 13469, 13470, 15739.
- Cytotoxic, Bcap37 hmn breast cancer cells 843, 11392, 13123, 16183, 17717, 18499.
- Cytotoxic, Bel7402 hmn liver cancer cells 1764, 3053, 3868, 3869, 3911, 5826, 5832, 5888, 6044, 6045, 6075, 6314, 6328, 7436, 7504, 7544, 7545, 7548, 8526, 8527, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8543, 8544, 8692, 9567, 10052, 11081, 11659, 14347, 17059, 17060, 17061, 17062, 17063, 17064, 17928, 19488, 20397, 20811, 20811, 20811.
- Cytotoxic, Bel7405 hmn liver cancer cells 1860, 8656, 9546, 14044, 22828.
- Cytotoxic, Bel7420 cells 18545.
- Cytotoxic, BGC823 hmn stomach cancer cells 843, 1030, 1764, 3053, 3868, 3869, 4701, 5826, 5832, 6044, 6045, 6075, 6756, 8526, 8527, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8543, 8544, 9567, 10052, 10815, 10816, 10817, 11081, 11392, 11659, 13123, 13694, 13700, 13701, 13705, 16050, 17059, 17060, 17061, 17062, 17063, 17064, 17717, 18499, 20397, 20542, 22011, 22013, 22497, 22798.
- Cytotoxic, BIU87 bladder cancer cells 16183, 17717.
- Cytotoxic, BL6 mouse melanotic carcinoma 472, 1276, 4237, 13241.
- Cytotoxic, blocks cell from G₁ to S phase 9655.
- Cytotoxic, blocks DNA synthesis 19085.
- Cytotoxic, blocks expression of vascular endothelial growth factor (VEGF)mRNA in GI-101A cells 3498.
- Cytotoxic, B-lymphocytes 1359.
- Cytotoxic, bone cancer cells 15409.
- Cytotoxic, Bowes skin cancer cells 16402, 19571, 19983.
- Cytotoxic, breast cancer cells 2601, 11783, 22761.
- Cytotoxic, Brine Shrimp Lethality bioassay (Brine Shrimp Test) 1297, 1303, 2082, 3292, 5327, 6309, 8210, 10511, 13296, 17592.
- Cytotoxic, BST 1310, 1311, 1312, 1313, 1320, 1321, 1322, 1679, 2736, 7788, 8946, 11375, 11566, 11864, 11978, 14906, 15084, 15085, 15087, 15088, 15089, 15902, 15903, 16676, 16677, 18211, 18214, 18215,

- 18240, 18899, 20248.
- Cytotoxic, BSY1 breast cancer cells** 1625, 4880, 18714.
- Cytotoxic, BT-20** 9869.
- Cytotoxic, BT474 hmn galactophore cancer cells** 225, 226, 248, 463, 2257, 2261, 2262, 4268, 4269, 5942, 5945, 10307, 12414, 12417, 12423.
- Cytotoxic, BT549 hmn galactophore cancer cells** 11636, 18114.
- Cytotoxic, BXP3 pancreas cancer cells** 7912, 9859, 9861, 9917, 10672, 10673, 16296, 16312.
- Cytotoxic, C6 rat glioma cells** 9376, 9383, 9386.
- Cytotoxic, CA hmn liver cancer cells** 11392, 13071, 13123, 16183, 17717.
- Cytotoxic, CaEs-17 hmn esophageal cancer cells** 16183.
- Cytotoxic, CAKI hmn renal cancer cells** 14934.
- Cytotoxic, CAKI-1 hmn renal cancer cells** 3583.
- Cytotoxic, Calu1 hmn lung cancer cells** 6776, 10068, 20010.
- Cytotoxic, Capan1 pancreas cancer cells** 12936, 17979.
- Cytotoxic, Capan2 pancreas cancer cells** 17979.
- Cytotoxic, CaSki hmn cervical carcinoma cells** 1992, 11977.
- Cytotoxic, CCM2** 8167.
- Cytotoxic, cell adhesion inhibitor, adhesion of HL-60 cell to BAEC** 3324, 3325.
- Cytotoxic, cellular differentiation inducer, HL-60** 175, 240, 1438, 1441, 2676, 2684, 6064, 7204, 10769, 15635, 20610, 20670, 21410.
- Cytotoxic, cellular differentiation inducer, mus myelocytic leukemia cells** 10594, 10751, 10752, 10796.
- Cytotoxic, CEM leukemia cells** 6221.
- Cytotoxic, CHAGO hmn undifferentiated lung cancer cells** 225, 226, 463, 2257, 2261, 2262, 4268, 4269, 5942, 5945, 10307, 12414, 12417, 12423.
- Cytotoxic, changes the shape of *Pyricularia oryzae* mycelium** 17975, 17980.
- Cytotoxic, Chinese hamster ovarian** 8.
- Cytotoxic, CNE hmn nasopharyngeal carcinoma** 16183, 17717.
- Cytotoxic, Col1 hmn colorectal cancer cells** 15739.
- Cytotoxic, Col2 hmn colorectal cancer cells** 175, 240, 266, 1863, 3300, 5055, 5074, 5319, 5401, 6042, 6064, 6277, 6282, 6483, 6759, 6759, 6759, 6759, 7078, 7204, 7764, 10297, 10396, 10438, 10769, 11353, 13469, 13470, 13472, 14045, 14846, 18866, 20610, 20809, 20811, 21313, 21314, 21315, 21316, 21410, 21803, 21924.
- Cytotoxic, COLO320DM hmn colorectal cancer cells** 4913.
- Cytotoxic, Colon205 colorectal cancer cells** 2528, 2824, 2826, 3583, 3777, 6766, 6906, 7698, 10206, 14775, 18224, 19540, 20811.
- Cytotoxic, Colon26-L5 mus colorectal cancer cells** 2468, 2498, 2499, 2500, 3012, 3012, 3014, 3015, 3016, 3016, 3018, 3018, 3019, 3019, 3020, 3020, 3021, 3021, 4398, 4882, 5156, 5156, 5548, 5777, 5778, 5779, 5780, 6217, 6844, 6844, 6846, 6846, 6847, 6848, 6848, 9300, 3022, 6849, 9974, 10100, 10412, 13859, 14254, 15351, 15352, 15796, 16229, 17174, 17517, 17518, 17519, 19618, 20840, 20877, 21529.
- Cytotoxic, colorectal cancer cells** 11783, 15409, 16864, 22761.
- Cytotoxic, colorimetric method** 6759, 17574, 20253.
- Cytotoxic, COS-7 monkey kidney cells** 8360, 8361, 8363, 8364, 8365.
- Cytotoxic, COX-1 inhibitor** 1397, 1405, 1417, 1421, 1422, 1423, 1443, 1446, 1447, 1448, 1765, 7026, 5679, 15714, 20326, 21849, 12681, 11672, 1387, 1396, 1412, 1445, 1449, 1450, 2172, 2635, 3308, 4337, 7768, 18643, 18644, 11248, 14931, 14962, 14961.
- Cytotoxic, COX-2 inhibitor** 1387, 1396, 1412, 1424, 1437, 1442, 1444, 1445, 1449, 1450, 2334, 6497, 11490, 14931, 18644, 21440.
- Cytotoxic, Crown gall cancer cells** 17619.
- Cytotoxic, CT-26 mus colorectal cancer cells** 3241, 9669.
- Cytotoxic, CTV1 hmn leukemia cells** 17240.
- Cytotoxic, cultural hmn throat epicytoma cells** 14896.
- Cytotoxic, cultured mouse epidermal 308 cells** 1372, 1373, 1394, 1395, 5543, 15412.
- Cytotoxic, CXF94L hmn tumor cells** 13241.
- Cytotoxic, cytochrome C antioxidant assay** 1398.
- Cytotoxic, D.mel-II (embryonic tissue of ferment fly, *D. melanogaster*)** 2948, 2950, 2952.
- Cytotoxic, DAUDI** 17528.
- Cytotoxic, decrease in cellular GSH content and increases ROS production** 9669.
- Cytotoxic, decrease in thymidine uptake and glutathione levels of the tumor cells** 6767.
- Cytotoxic, direct cytotoxic effect to arrest carcinoma cells in the G2/M phase, stomach cancer cells** 22232.
- Cytotoxic, DLD hmn colorectal adenocarcinoma cells** 11949.
- Cytotoxic, DLD-1 hmn colorectal adenocarcinoma cells** 9669.
- Cytotoxic, DMS114 hmn lung cancer cells** 4880.
- Cytotoxic, DMS273 hmn lung cancer cells** 1625, 4880.
- Cytotoxic, DNA-damaging activity** 3498, 6710, 6711, 6714, 11636, 12537, 18114, 19061.
- Cytotoxic, DU145 prostatic cancer cells** 2528, 4880, 5343, 5580, 5621, 6314, 7912, 8278, 9859, 9861, 9917, 10672, 10673, 16296, 16312, 18700, 18701, 20117, 20122, 20129, 20811, 22281.
- Cytotoxic, EAC Ehrlich ascites cancer cells** 3502, 3745, 3906, 6284, 6285, 6459, 7323, 7566, 11056, 13238, 17717, 18461, 19929, 22778.
- Cytotoxic, EBV-EA** 7764, 11358, 19236, 20465.
- Cytotoxic, EBV-EA inhibitor TPA-induced** 7764, 11358, 19236, 20465.
- Cytotoxic, Ehrlich ascites cancer cells** 4471, 4472, 7399, 16183.
- Cytotoxic, EJ-1 hmn bladder cancer cells** 2102, 2106, 22718.
- Cytotoxic, EL4 cells** 19143.
- Cytotoxic, enhances cytotoxicity for drug-resistant strain P₃₈₈** 8436.
- Cytotoxic, estrogen α -receptor-binding assay** 1397, 2630, 2648, 4108, 14961.
- Cytotoxic, estrogen β -receptor-binding assay** 1397, 2630, 2648, 4108, 14961.
- Cytotoxic, estrone sulfatase assay** 6322, 21968.
- Cytotoxic, fibrosarcoma cells** 6767.
- Cytotoxic, FM3A mus breast cancer cells** 911, 912, 1650, 1651, 1652, 2312, 2380.
- Cytotoxic, gpg horn cells** 3096.
- Cytotoxic, GXF251L** 13241.
- Cytotoxic, H.Ep.-2 hmn cutis cancer cells in throat** 7836, 17042.
- Cytotoxic, H116 hmn colorectal cancer cells** 5284, 5295, 6897, 9747, 14495, 14496, 14504, 14644, 14647.

- Cytotoxic, HBC4 breast cancer cells** 4880.
- Cytotoxic, HBC5 breast cancer cells** 4880.
- Cytotoxic, HCC2998 hmn colorectal cancer cells** 4880.
- Cytotoxic, HCT hmn colorectal cancer cells** 2677, 12958, 18931, 22795, 22923.
- Cytotoxic, HCT116 hmn colorectal cancer cells** 159, 1792, 3300, 3583, 4880, 6160, 6490, 9376, 9383, 9386, 11723, 22077, 22580.
- Cytotoxic, HCT15 hmn colorectal cancer cells** 1913, 1914, 4880, 5706, 6162, 7032, 11723, 11723, 16370, 18011, 20679, 20680, 20681, 21709, 22208, 22209.
- Cytotoxic, HCT8 hmn colorectal cancer cells** 1764, 2652, 2653, 2654, 2655, 2656, 3053, 3868, 3869, 5826, 5832, 6044, 6045, 6075, 6221, 8940, 9567, 10052, 11081, 12188, 12189, 14934, 14934, 14935, 17059, 17060, 17061, 17062, 17063, 17064, 18044, 20540, 20542, 20545, 22147, 22148, 22149, 22150.
- Cytotoxic, HEK-293 hmn epithelial kidney cells** 1575, 3821, 8715, 18691, 18693, 18733, 22838.
- Cytotoxic, HEL normal hmn embryonic lung fibrocytes** 5196, 14967.
- Cytotoxic, HeLa ATCC-17 hmn cervical epithelial cancer cells** 1136, 1137, 1138.
- Cytotoxic, HeLa culture cervical epithelial cancer cells from Henrietta Lack** 492, 585, 696, 1319, 1470, 1471, 1472, 1617, 1625, 2492, 2493, 2811, 3053, 3293, 3412, 3502, 3548, 3553, 3745, 3911, 4128, 4320, 4323, 4324, 4327, 4461, 4565, 4795, 4891, 5196, 5417, 5929, 6437, 6776, 6921, 7044, 7436, 7474, 7586, 7593, 7665, 7714, 8128, 8526, 8527, 8528, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8543, 8544, 8968, 9015, 9194, 9254, 9255, 9256, 9288, 9376, 9383, 9386, 9869, 10068, 10206, 10277, 10281, 10559, 10773, 10815, 10816, 10817, 10893, 11179, 11230, 11231, 11232, 11555, 11556, 11645, 11659, 11722, 11800, 11801, 11977, 12171, 12177, 12180, 12446, 12511, 13071, 14304, 14305, 14347, 14417, 14775, 14967, 16183, 16599, 16670, 17265, 17613, 17614, 17616, 17643, 17644, 17645, 17646, 17654, 17654, 17717, 17862, 18056, 18097, 18484, 18485, 18562, 18673, 18944, 18951, 18952, 18953, 19085, 19278, 19308, 20010, 20135, 20278, 20283, 20284, 20397, 20811, 20811, 20811, 20811, 21206, 21239, 21240, 21385, 21387, 21498, 22011, 22013, 22270, 22286, 22775, 22781, 22784.
- Cytotoxic, HeLa-S3 hmn cervical epithelial cancer cells** 3412, 4752, 4753, 4754, 4790, 13153, 13154, 13155, 13157, 13158, 13159, 13160, 13161, 13164, 13165, 15409, 17489, 21887.
- Cytotoxic, HELF normal hmn embryo lung fibroblasts** 20540.
- Cytotoxic, Hep2 hmn liver cancer cells** 2811, 7586, 11266, 20963.
- Cytotoxic, Hep2,2,15 transfected with hepatitis B virus hmn liver cancer cells** 473, 1294, 1295, 1296, 1302, 1308, 1856, 1961, 2735, 3060, 4089, 4090, 4091, 4284, 5240, 7515, 7516, 7815, 8167, 12956, 13023, 13038, 15084, 15085, 15090, 15091, 15092, 15093, 15095, 15097, 15098, 15339, 18897, 18898, 19200, 20240, 20243, 22214.
- Cytotoxic, Hep3B hmn liver cancer cells** 1324, 1324, 1325, 1492, 2830, 3258, 3259, 3260, 3261, 3262, 3263, 3555, 3777, 5297, 5522, 5532, 6490, 8379, 8379, 8932, 8933, 8934, 8935, 8936, 8946, 8947, 8948, 9194, 10206, 11977, 13903, 13943, 14775, 14936, 14936, 14937, 14937, 14938, 14938, 14941, 14942, 14943, 14943, 17872, 18224, 19540, 20626, 20811, 22077.
- Cytotoxic, Hepa hmn liver cancer cells** 20834, 20835, 20836.
- Cytotoxic, Hepa1c1c7 mus liver cancer cells** 1380, 1381, 1382, 1383, 1384, 1386, 1388, 1392, 1393, 1401, 1403, 1404, 1406, 1407, 1408, 1409, 1410, 1411, 1413, 1414, 1415, 1416, 1418, 1419, 1420, 1425, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 2468, 2857, 2857, 3071, 3072, 3602, 4282, 6228, 6228, 6246, 6246, 7670, 7788, 8278, 9740, 10430, 10827, 11504, 11804, 12953, 14074, 14074, 14075, 14075, 16498, 16935, 17753, 19542, 19910, 21918, 22615, 22715.
- Cytotoxic, Hepa59T/VGH hmn liver cancer cells** 531, 11951, 20811, 20833, 22630.
- Cytotoxic, HepG2 hmn liver cancer cells** 225, 226, 463, 473, 1294, 1295, 1296, 1302, 1308, 1324, 1324, 1325, 1617, 1856, 1961, 2102, 2106, 2257, 2261, 2262, 2735, 2948, 2950, 2952, 3060, 3555, 4089, 4090, 4091, 4128, 4268, 4269, 4284, 4891, 5240, 5367, 5369, 5532, 5942, 5945, 6490, 7044, 7515, 7516, 7815, 8167, 8379, 8379, 8932, 8933, 8934, 8946, 8947, 8948, 10307, 11977, 12414, 12417, 12423, 12511, 12597, 12954, 12956, 13023, 13038, 13903, 13943, 14936, 14936, 14937, 14937, 14938, 14938, 14939, 14940, 14940, 14941, 14941, 14942, 14942, 14943, 14943, 15084, 15085, 15090, 15091, 15092, 15093, 15095, 15097, 15098, 15339, 16634, 17872, 17928, 17929, 18673, 18897, 18898, 19148, 19200, 19308, 19488, 20240, 20243, 22077, 22214.
- Cytotoxic, HEPZ hmn epithelial cancer cells** 837.
- Cytotoxic, HGF normal hmn gingival fibroblast cells** 1010, 4338, 4339, 4340, 4341, 4342, 5184, 6128, 6129, 6130, 6447, 7133, 7136, 8354, 8355, 8357, 8358, 8359, 8653, 8654, 8655, 8687, 8721, 8722, 10716, 10719, 10720, 10722, 10727, 11206, 11248, 13881, 19254, 19517, 21797.
- Cytotoxic, HL-60 leukaemia cells** 175, 240, 594, 941, 1570, 1571, 1578, 1691, 1845, 2102, 2106, 2528, 2716, 2722, 3053, 3324, 3325, 3576, 3576, 3580, 3580, 3581, 3581, 3582, 3582, 3583, 3583, 3724, 3729, 3732, 3784, 3911, 4893, 5237, 5238, 5239, 5774, 5775, 5776, 5781, 5815, 5816, 5817, 5899, 5900, 5912, 5913, 5926, 6064, 6107, 6125, 6221, 6328, 6437, 6484, 6528, 6576, 6577, 6785, 7081, 7204, 7436, 7540, 7544, 7545, 7548, 7746, 7911, 7912, 8121, 8222, 8327, 8328, 8360, 8361, 8363, 8364, 8365, 8526, 8527, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8542, 8543, 8544, 8661, 8691, 8699, 9381, 9859, 9861, 9917, 9918, 9993, 10077, 10274, 10287, 10287, 10672, 10673, 10725, 10726, 10769, 10773, 10815, 10816, 10817, 11001, 11001, 11323, 11659, 11751, 11962, 12167, 12202, 12595, 12597, 12936, 12958, 13241, 13492, 13493, 13494, 13495, 14347, 14698, 15635, 15813, 16261, 16261, 16296, 16312, 17240, 17265, 17528, 17727, 17928, 17929, 17979, 18637, 18714, 18716, 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18778, 18835, 18892, 19122, 19324, 19410, 19410, 19411, 19411, 19412, 19412, 19413, 19413, 19488, 20009, 20068, 20221, 20223, 20397, 20610, 20811, 20811, 20811, 20811, 20911, 21410, 21498, 21771, 22011, 22013, 22290, 22718, 22720, 22777, 22792, 22793, 22794, 22795, 22826.
- Cytotoxic, hmn breast cancer cells** 1399, 2635, 14961.
- Cytotoxic, hmn cervical carcinoma cells** 21497.
- Cytotoxic, hmn cervical carcinoma cells** 11541.

- Cytotoxic, hmn colorectal cancer cells** 1389, 1390, 1439, 1440, 14901, 15494.
- Cytotoxic, hmn embryo lung cells** 11541.
- Cytotoxic, hmn intestinal mucoadenocarcinoma in nude mouse** 11179.
- Cytotoxic, hmn keratinocytes** 19284.
- Cytotoxic, hmn liver cancer cells** 8128.
- Cytotoxic, hmn lymphocytes** 14995.
- Cytotoxic, hmn medulloblastoma** 1470, 1471, 1472, 11230, 11231, 11232, 11645, 18562.
- Cytotoxic, hmn microvascular endothelial cells** 9198.
- Cytotoxic, hmn peripheral blood T cells** 7519, 11318, 12106, 15331, 16216, 19515, 22718.
- Cytotoxic, hmn throat epicytoma cells** 7558.
- Cytotoxic, hmn throat epidermic carcinoma cells H-Ep-2** 9288.
- Cytotoxic, hmn T-lymphoid leukemia cells** 2102.
- Cytotoxic, HO-8910 hmn ovarian cancer cells** 1860, 8656, 9546, 11203, 14044, 14828, 16675, 22497, 22828.
- Cytotoxic, HOG.R5 green fluorescent protein (GFP)-based reporter cells** 1863, 1885, 6759, 9546, 10396, 13845, 14045.
- Cytotoxic, HONE-1 hmn nasopharyngeal carcinoma cells** 228, 332, 530, 2006, 2338, 3555, 4317, 4320, 4323, 5573, 5574, 8935, 8936, 13294, 16337, 16402, 16891, 20495, 22270, 22272.
- Cytotoxic, HOP-62 non-small cell lung cancer cells** 3583.
- Cytotoxic, Hs578T hmn breast cancer cells** 5343, 5580, 5621, 8278, 18700, 18701, 20117, 20122, 20129.
- Cytotoxic, Hs740T hmn stomach cancer cells** 5343, 5580, 5621, 8278, 18700, 18701, 20117, 20122, 20129.
- Cytotoxic, Hs742T hmn breast cancer cells** 5343, 5580, 5621, 8278, 18700, 18701, 20117, 20129.
- Cytotoxic, Hs756T hmn stomach cancer cells** 5343, 5580, 5621, 8278, 18700, 18701, 20117, 20122, 20129.
- Cytotoxic, HSC-2 hmn oral squamous cell carcinoma cells** 1010, 1177, 1508, 1570, 1571, 1581, 1583, 4338, 4339, 4340, 4341, 4342, 5184, 6128, 6129, 6130, 6447, 7083, 7131, 7132, 7139, 7140, 8354, 8355, 8357, 8358, 8359, 8661, 8695, 10722, 10727, 11206, 11248, 19254, 19257, 19521, 21797, 22826.
- Cytotoxic, HSC-2 hmn oral squamous cell carcinoma cells, also active for normal hmn gingival fibroblasts HGF** 8653, 8654, 8655, 8687, 8721, 8722, 10716, 10719, 10720, 13881.
- Cytotoxic, HSC-2 hmn oral squamous cell carcinoma cells, inactive for normal hmn gingival fibroblasts HGF** 512, 579, 3667, 3668, 9905, 10717.
- Cytotoxic, HSG hmn salivary gland tumor cells** 19254.
- Cytotoxic, HT sarcoma cells** 9187, 15919, 17008, 17009.
- Cytotoxic, HT1080 hmn fibrosarcoma cells** 2468, 2498, 2499, 2500, 2769, 3012, 3012, 3014, 3014, 3015, 3015, 3016, 3016, 3018, 3018, 3019, 3019, 3020, 3020, 3021, 3021, 3022, 4398, 4882, 4900, 5156, 5156, 5777, 5778, 5780, 6217, 6277, 6282, 6759, 6844, 6844, 6846, 6846, 6847, 6848, 6848, 6849, 9300, 9628, 9974, 10438, 11353, 12766, 12768, 12770, 13098, 13859, 14254, 15351, 15351, 15352, 15352, 15739, 15922, 15923, 16232, 17174, 17343, 18866, 19516, 19517, 19524, 19525, 19526, 21924.
- Cytotoxic, HT1197 cells** 22208, 22209.
- Cytotoxic, HT29 hmn colorectal cancer cells** 228, 332, 530, 1297, 1303, 1304, 1305, 1310, 1312, 1320, 1321, 1322, 1367, 1625, 1679, 1691, 1924, 1925, 1926, 2005, 2047, 2338, 2528, 2694, 2735, 2736, 2857, 3257, 3457, 3583, 3974, 3975, 4164, 4165, 4166, 4310, 4880, 5841, 5843, 6010, 6165, 6181, 6183, 6204, 6314, 6367, 6404, 6405, 6490, 6642, 6827, 6828, 7032, 7698, 7788, 7789, 7951, 8203, 8204, 8205, 8556, 8946, 9226, 9323, 9544, 10126, 10462, 11269, 11375, 11494, 11566, 11605, 12254, 12541, 12886, 12887, 12888, 13673, 13685, 13808, 14254, 14492, 14572, 14645, 14646, 14906, 15082, 15084, 15085, 15087, 15088, 15089, 15141, 15879, 15902, 15903, 16020, 16282, 16283, 16337, 16402, 16427, 16677, 16832, 17588, 17619, 17872, 18754, 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18778, 18892, 19427, 19516, 19517, 19524, 19525, 19526, 20002, 20244, 20363, 20641, 20644, 20811, 20811, 22077, 22270, 22272, 22451, 22458.
- Cytotoxic, HT3 hmn cervicall cancer cells** 1992.
- Cytotoxic, HTC mus hepatosarcoma cells** 8148, 8149, 8159, 8160, 8161, 8174.
- Cytotoxic, HTC rat cultural liver cancer cells** 18295, 18296.
- Cytotoxic, hTERT-RPE1 hmn telomerase reverse transcriptase-retinal pigment epithelial cells** 2259, 3300, 5319, 5387, 5401, 5536, 6042, 6483, 6500, 20811, 21803.
- Cytotoxic, Huh7 hmn hepatoma cells** 9376, 9383, 9386.
- Cytotoxic, HUVEC hmn umbilical vein endothelial cells** 1863, 3300, 3300, 5319, 5319, 5401, 5536, 5536, 6483, 6483, 6500, 6500, 6759, 10396, 14045, 20811, 21803.
- Cytotoxic, induces apoptosis, B16** 19143.
- Cytotoxic, induces apoptosis, causes rapidly apoptosis of many radioresistant and chemoresistant hmn squamous cell carcinoma** 3498.
- Cytotoxic, induces apoptosis, HeLa** 7665.
- Cytotoxic, induces apoptosis, HL-60** 10287, 13492.
- Cytotoxic, inhibition assay of ornithine decarboxylase** 1373, 1394, 1395.
- Cytotoxic, inhibits absorption of thymidine** 2664.
- Cytotoxic, inhibits biosynthesis of DNA** 17489.
- Cytotoxic, inhibits biosynthesis of DNA, RNA and protein** 14698, 16183, 21397.
- Cytotoxic, inhibits biosynthesis of DNA, RNA, protein and cholesterol** 7566.
- Cytotoxic, inhibits Ca²⁺-induced depolymerization of tubulin to overcome resistance of cancer cells** 20800, 20850.
- Cytotoxic, inhibits cellular macromolecular biosyntheses** 8360, 8361, 8363, 8364, 8365.
- Cytotoxic, inhibits DMBA-induced preneoplastic lesion formation** 240, 4151, 4179, 4180.
- Cytotoxic, inhibits DNA biosynthesis by blocking thymidine to go into HL-60 cells** 941, 6484, 22777.
- Cytotoxic, inhibits estrogen receptor-positive MCF7 hmn breast cancer cells, the inhibition was not reversibile by an addition of estrogen** 2102.
- Cytotoxic, inhibits growth of cells** 2102, 2106, 19284, 20009, 22718,

- 22720.
- Cytotoxic, inhibits growth of cells inactive, MCF7, NCIH460, SF268** 8569.
- Cytotoxic, inhibits growth of cells, A549** 5055, 6162, 21709, 22208, 22209.
- Cytotoxic, inhibits growth of cells, B16** 19143.
- Cytotoxic, inhibits growth of cells, Bel7402** 5888, 7504, 8692.
- Cytotoxic, inhibits growth of cells, breast cancer cells** 2601.
- Cytotoxic, inhibits growth of cells, Col2** 5055.
- Cytotoxic, inhibits growth of cells, EL₄** 19143.
- Cytotoxic, inhibits growth of cells, GI-101A** 3498.
- Cytotoxic, inhibits growth of cells, HCT15** 6162, 21709, 22208, 22209.
- Cytotoxic, inhibits growth of cells, HepG2** 2102, 2106.
- Cytotoxic, inhibits growth of cells, HL-60** 3576, 3580, 3581, 3582, 3583, 14698, 19410, 19411, 19412, 19413.
- Cytotoxic, inhibits growth of cells, hmn cancer cells** 22210, 22211, 22212.
- Cytotoxic, inhibits growth of cells, HT1197** 22208, 22209.
- Cytotoxic, inhibits growth of cells, KB** 13672, 14813, 21447, 21448, 21554.
- Cytotoxic, inhibits growth of cells, LOX-IMVI** 6162, 21709.
- Cytotoxic, inhibits growth of cells, MCF7** 8563, 8570, 13092, 13093, 13098, 18170, 18171, 18172, 22208, 22209.
- Cytotoxic, inhibits growth of cells, MDA-MB-435** 2102.
- Cytotoxic, inhibits growth of cells, MH₁C₁** 19143.
- Cytotoxic, inhibits growth of cells, NCI-H460** 8563, 8570, 13092, 13093, 13098, 18170, 18171, 18172.
- Cytotoxic, inhibits growth of cells, PC3** 21709, 6162.
- Cytotoxic, inhibits growth of cells, rat liver cancer** 16935.
- Cytotoxic, inhibits growth of cells, SF268** 8563, 8570, 13092, 13093, 13098, 18170, 18171, 18172.
- Cytotoxic, inhibits growth of cells, SW620** 6162, 21709.
- Cytotoxic, inhibits growth of cells, ZR-75-1** 9564.
- Cytotoxic, inhibits invasion of mus MO4 cells into embryonic chick heart fragments** 15635, 20670.
- Cytotoxic, inhibits phosphorylated action of phospholipid, then inhibits cancer cell's growth and metabolism** 17763.
- Cytotoxic, inhibits TPA-induced ³²P combines with phospholipid in HeLa cells** 12766.
- Cytotoxic, Ishikawa anti-E2 bioassay** 1389, 1390, 14714.
- Cytotoxic, J774.A1 macrophages** 1575, 3821, 8715, 8716, 18691, 18693, 18733, 22838.
- Cytotoxic, Jurkat-T hmn T-cell leukemia cells** 2495, 4190, 4604, 5851, 5973, 7295, 10047, 11978, 17478, 17528, 17830, 17979.
- Cytotoxic, K562 doxorubicin-resistant hmn leukemia cells** 5175, 8238, 11433.
- Cytotoxic, K562 hmn leukemia cells** 607, 610, 843, 1245, 1913, 1914, 2334, 2338, 2528, 3548, 3551, 3583, 3920, 3921, 4147, 4148, 4701, 5929, 6756, 6785, 6789, 6790, 6794, 6826, 7062, 8483, 9080, 9381, 10277, 10281, 10559, 11266, 11392, 11394, 11722, 12171, 12177, 12180, 12536, 12587, 12588, 12589, 12936, 12958, 13071, 13076, 13078, 13083, 13123, 13241, 13537, 13544, 13694, 14304, 14305, 15652, 16050, 16183, 16402, 17240, 17717, 17975, 17979, 17980, 18457, 18459, 18499, 18931, 19122, 19458, 19571, 19579, 20010, 20811, 20811, 22281, 22653, 22654, 22655, 22657, 22751, 22793, 22794, 22795, 22797, 22798, 22799, 22802, 23013.
- Cytotoxic, Kato3 hmn stomach cancer cells** 225, 226, 463, 2257, 2261, 2262, 4268, 4269, 5942, 5945, 6621, 10307, 11405, 12414, 12417, 12423, 19535, 19537.
- Cytotoxic, KB ATCC CCL17 hmn nasopharyngeal carcinoma cells** 4941, 5494, 7115, 7182, 10155, 18673.
- Cytotoxic, KB drug-resistant cells** 18866.
- Cytotoxic, KB hmn nasopharyngeal carcinoma cells** 24, 76, 78, 84, 90, 228, 265, 332, 349, 492, 526, 530, 531, 577, 589, 777, 837, 913, 914, 915, 993, 1012, 1277, 1306, 1460, 1470, 1471, 1472, 1492, 1768, 1863, 1864, 1885, 2026, 2109, 2244, 2260, 2338, 2495, 2590, 2604, 2619, 2652, 2653, 2654, 2655, 2656, 2660, 2661, 2677, 2716, 2722, 2810, 2811, 2830, 2990, 2991, 2998, 3181, 3300, 3368, 3402, 3405, 3406, 3416, 3481, 3499, 3513, 3514, 3515, 3600, 3626, 3708, 3729, 3732, 3748, 3777, 3778, 3829, 4048, 4164, 4165, 4166, 4190, 4320, 4323, 4324, 4327, 4547, 4604, 4708, 4739, 4740, 4775, 4939, 5064, 5074, 5074, 5095, 5237, 5238, 5239, 5274, 5275, 5319, 5327, 5401, 5522, 5536, 5537, 5851, 5941, 5973, 6042, 6049, 6483, 6500, 6514, 6516, 6606, 6646, 6647, 6652, 6654, 6750, 6751, 6759, 6759, 6759, 6759, 6759, 6759, 6759, 6759, 6760, 6766, 6913, 7027, 7030, 7031, 7033, 7036, 7041, 7078, 7192, 7193, 7295, 7317, 7550, 7551, 7552, 7553, 7554, 7555, 7556, 7579, 7580, 7581, 7583, 7584, 7585, 7586, 7590, 7593, 7594, 7595, 7650, 7655, 7740, 7912, 7914, 8004, 8079, 8080, 8121, 8220, 8221, 8222, 8235, 8278, 8327, 8328, 8489, 8508, 8509, 8526, 8527, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8543, 8544, 8940, 9072, 9187, 9194, 9198, 9320, 9330, 9570, 9859, 9861, 9902, 9917, 9918, 9993, 10047, 10148, 10250, 10297, 10297, 10297, 10310, 10396, 10511, 10588, 10672, 10673, 10680, 10692, 10815, 10816, 10817, 10909, 10915, 11015, 11071, 11230, 11231, 11232, 11295, 11316, 11353, 11355, 11380, 11494, 11636, 11645, 11723, 11736, 11807, 11850, 11977, 11978, 11980, 12188, 12189, 12454, 12487, 12746, 12897, 12917, 12944, 12964, 13023, 13430, 13432, 13464, 13469, 13470, 13472, 13489, 13490, 13492, 13493, 13494, 13495, 13618, 13619, 13620, 13622, 13672, 13845, 14045, 14195, 14602, 14813, 14906, 14934, 14934, 14935, 14935, 14978, 15170, 15242, 15409, 15417, 15494, 15495, 15598, 15635, 15739, 15746, 15776, 15857, 15991, 16020, 16119, 16266, 16280, 16312, 16329, 16337, 16339, 16356, 16402, 16411, 16429, 16444, 16495, 16604, 16693, 16695, 16733, 16747, 16749, 16864, 16984, 17008, 17252, 17430, 17431, 17478, 17557, 17591, 17592, 17603, 17830, 17832, 17862, 17928, 17929, 17998, 18044, 18091, 18114, 18188, 18222, 18224, 18298, 18515, 18523, 18562, 18637, 18637, 18668, 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18866, 18892, 19128, 19129, 19148, 19234, 19235, 19373, 19376, 19511, 19542, 19542, 19637, 19638, 19753, 19790, 19900, 20051, 20062, 20063, 20160, 20284, 20285, 20540, 20575, 20626, 20629, 20630, 20631, 20632, 20633, 20634, 20635, 20636, 20637, 20638, 20639, 20640, 20671, 20743, 20800, 20803, 20809, 20809, 20810, 20811, 20811, 20813, 20814, 20833, 20834, 20835, 20852, 20853, 20856, 20873, 20911, 20963, 21313, 21314, 21315, 21316, 21390, 21447, 21448, 21554, 21803, 21830, 22011, 22011,

- 22013, 22013, 22103, 22147, 22148, 22149, 22150, 22232, 22270, 22272, 22301, 22405, 22411, 22412, 22414, 22443, 22543, 22548, 22549, 22630, 22667, 22768, 22784.
- Cytotoxic, KB15 hmn nasopharyngeal carcinoma cells** 15879.
- Cytotoxic, KB16 hmn nasopharyngeal carcinoma cells** 11949, 11951, 16282, 16343.
- Cytotoxic, KB3 hmn nasopharyngeal carcinoma cells** 15920.
- Cytotoxic, KBMRI cells** 10126.
- Cytotoxic, KB-V cells** 11353, 11353, 15919, 17008, 17008, 17009.
- Cytotoxic, KB-V1 cells** 15739, 20809.
- Cytotoxic, KB-VIN vincristine-resistant nasopharyngeal carcinoma cells** 1625, 14934, 14935, 14935, 16864.
- Cytotoxic, Ketr3 hmn renal cancer cells** 6075, 9567, 11081, 17059, 17060, 17061, 17062, 17063, 17064.
- Cytotoxic, KG-1 hmn leukemia cells** 17240.
- Cytotoxic, Kichita sarcoma cells** 15230, 15231, 15232, 15233, 15234, 17591.
- Cytotoxic, KM12 hmn colorectal cancer cells** 3583, 4880.
- Cytotoxic, KM20L2 hmn colorectal cancer cells** 7912, 9859, 9861, 9917, 10672, 10673, 16296, 16312.
- Cytotoxic, KM3 cells** 17528.
- Cytotoxic, KU-1 hmn bladder cancer cells** 2102, 2106, 22718.
- Cytotoxic, L₁₂₁₀ lymphocytic leukemia cells** 577, 2304, 2339, 2340, 4048, 4708, 7740, 8360, 8361, 8363, 8364, 8365, 8452, 15409, 15647, 16183, 16411, 16429, 16586, 17557, 17600, 18523, 20009, 20240, 20743, 20771, 20798, 20800, 20813, 20814, 20849, 20850, 20851, 20852, 20853, 20871, 20872, 22281.
- Cytotoxic, L5178Y lymphosarcoma cells** 2811, 13432, 17822, 21493.
- Cytotoxic, L-6 rat skeletal myoblasts** 589, 11978, 17478, 17592, 17592, 22551.
- Cytotoxic, L-929 fibrosarcoma cells** 2492, 2493, 3241, 3548, 4046, 5929, 6437, 9669, 10277, 10281, 10559, 11800, 11801, 12171, 12177, 12180, 14304, 14305, 16599, 17654, 18056, 20811.
- Cytotoxic, lymphoma cells** 21490.
- Cytotoxic, leukemia** 1275, 2660, 2684, 13044, 14945, 16597, 19146, 19221, 22411.
- Cytotoxic, leukemia cells** 11227.
- Cytotoxic, liver cancer cells** 11392, 22270.
- Cytotoxic, LLC mouse Lewis lung cancer cells** 1792, 3227, 3228, 3229, 3230, 4235, 5378, 8187, 10235, 10317, 10403, 10539, 11023, 11278, 11279, 13020, 13021, 13241, 17769, 19777, 20556.
- Cytotoxic, LMTK mouse fiber cells** 5081, 16634.
- Cytotoxic, LNCaP hmn prostate cancer cells** 1863, 3087, 3088, 5074, 6042, 6759, 6759, 7078, 7764, 9013, 9187, 10297, 10396, 10588, 11353, 14045, 14227, 14234, 15739, 15919, 15922, 17008, 18866, 20809, 20811, 21313, 21314, 21315, 21316, 21803.
- Cytotoxic, LO2 hmn liver cells** 11203.
- Cytotoxic, LoVo hmn colorectal cancer cells** 1552, 6164, 6213, 6490, 9376, 9383, 9386, 13403, 16703, 19916, 22077.
- Cytotoxic, LoVo/Doxo hmn colorectal cancer cells, drug-resistant subclone** 6164.
- Cytotoxic, LOX melanoma cells** 4111, 4112, 4113.
- Cytotoxic, LOX-IMVI melanoma cells** 251, 2334, 2338, 4147, 4148, 4880, 5314, 5706, 6162, 16050, 19516, 19517, 19524, 19525, 19526, 21709, 23013.
- Cytotoxic, LS174T colorectal cancer cells** 4913.
- Cytotoxic, Lu1 hmn lung cancer cells** 1863, 2259, 3300, 5319, 5387, 5401, 5536, 6042, 6483, 6500, 6759, 6759, 6759, 7078, 7764, 9187, 10297, 10396, 10588, 11353, 13469, 13470, 14045, 15919, 17008, 18866, 20809, 20811, 21313, 21314, 21315, 21316, 21803.
- Cytotoxic, LUC-1** 15739.
- Cytotoxic, lung cancer cells** 10229, 10230.
- Cytotoxic, LXFL529L hmn large cell lung cancer cells** 2102, 2106, 13241, 20009, 22718, 22720.
- Cytotoxic, lymphleukemia cells** 16864.
- Cytotoxic, lymphocyte sarcoma** 2664.
- Cytotoxic, M1 mus myelocytic leukemia** 17239.
- Cytotoxic, M14 melanoma cells** 3583.
- Cytotoxic, M4BEU hmn melanoma cells** 3241, 9669.
- Cytotoxic, M5076 ovarian sarcoma cells** 16601.
- Cytotoxic, Ma7373 mus breast cancer cells** 11179.
- Cytotoxic, macrophages** 1359.
- Cytotoxic, MALME-3M melanoma cells** 3583.
- Cytotoxic, mammary cancer cells in rat** 12957, 12958.
- Cytotoxic, many of radioresistant and chemoresistant hmn squamous cell carcinoma** 3498.
- Cytotoxic, may serve as a new prototype molecule to develop antitumor agents, the first compound of this type to contain lactone moieties on both sides of the aliphatic chain and to lack either tetrahydrofuran or tetrahydropyran rings** 18897.
- Cytotoxic, MBT-2 mus bladder cancer cells** 2102, 2106, 22718.
- Cytotoxic, MCF7 hmn breast cancer cells** 1297, 1303, 1304, 1305, 1310, 1320, 1321, 1322, 1679, 1764, 2006, 2527, 2528, 2735, 2736, 2856, 2857, 2985, 3053, 3096, 3097, 3241, 3303, 3457, 3555, 3583, 3868, 3869, 4310, 4317, 4320, 4323, 4689, 4690, 4880, 4913, 4930, 4986, 5551, 5622, 5826, 5832, 6075, 6221, 6367, 6827, 6828, 7100, 7125, 7126, 7376, 7613, 7614, 7646, 7698, 7788, 7912, 8526, 8527, 8528, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8541, 8543, 8544, 8563, 8570, 8946, 8947, 8948, 9323, 9567, 9669, 9859, 9861, 9885, 9917, 10672, 10673, 10815, 10816, 10817, 11029, 11081, 11269, 11566, 11977, 13092, 13093, 13098, 13518, 13867, 13869, 14934, 14934, 14935, 14935, 15082, 15084, 15085, 15087, 15088, 15089, 15141, 15169, 15902, 15903, 15916, 16020, 16021, 16296, 16312, 16402, 16676, 16693, 16694, 16695, 16832, 17059, 17060, 17061, 17062, 17063, 17064, 17309, 17619, 17973, 18170, 18171, 18172, 19427, 19516, 19517, 19524, 19525, 19526, 20244, 20641, 20643, 20644, 20811, 20811, 20811, 20811, 20811, 21435, 22011, 22013, 22077, 22208, 22208, 22209, 22281, 22781.
- Cytotoxic, MCF7/6 hmn breast cancer cells** 12344.
- Cytotoxic, MCF7/ADR-RES hmn breast cancer cells** 3583.
- Cytotoxic, MCF7-ras hmn breast cancer cells** 11977, 22077.
- Cytotoxic, MDA-MB-231 hmn breast cancer cells** 2528, 3555, 4880, 5532, 7698, 7698, 8932, 8933, 8934, 8936, 8947, 8948, 20811, 20811.
- Cytotoxic, MDA-MB-231/ATCC hmn breast cancer cells** 3583.
- Cytotoxic, MDA-MB-435 hmn breast cancer cells** 2102, 3583, 11659, 20397.

- Cytotoxic, MDA-N hmn breast cancer cells** 3583.
- Cytotoxic, mechanism was considered to be an inhibition of oxygen consumption and depletion of glutathione in tumor cells** 11179.
- Cytotoxic, mechanism was postulated to be due to covalent binding of oridonin to a specific site of enzymes in tumor cells** 16183.
- Cytotoxic, Mel-2 cells** 15739, 15923, 17008, 20137.
- Cytotoxic, MEL-28 hmn melanoma cells** 1924, 1925, 1926, 14492, 14645, 14646, 16427.
- Cytotoxic, melanoma cells** 16864.
- Cytotoxic, Meth-A sarcoma cells** 1792, 3227, 3228, 3229, 3230, 4235, 5378, 8186, 8187, 8188, 10229, 10230, 10317, 10403, 10539, 13019, 13020, 13021, 13241, 17769, 19777, 20556.
- Cytotoxic, MG** 18461.
- Cytotoxic, MGC803 hmn gastric adenocarcinoma cells** 16183.
- Cytotoxic, MH₁C₁** 19143.
- Cytotoxic, MH-60 mus leukemia cells** 7192, 7193, 7912, 16312, 16329, 18637.
- Cytotoxic, MI4 melanoma cells** 5706.
- Cytotoxic, MIA-PaCa-2 hmn pancreas cancer cells** 1297, 1303, 1304, 1305, 6827, 6828.
- Cytotoxic, MK1 hmn stomach cancer cells** 16599, 18944, 18950, 18951, 18952, 18953.
- Cytotoxic, MKN1 hmn stomach cancer cells** 4880.
- Cytotoxic, MKN28 hmn stomach cancer cells** 1625, 4880, 6785, 12202, 12958, 18714, 18931, 22793, 22794, 22795.
- Cytotoxic, MKN45 hmn stomach cancer cells** 4880.
- Cytotoxic, MKN7 hmn stomach cancer cells** 4880.
- Cytotoxic, MKN74 hmn stomach cancer cells** 4880.
- Cytotoxic, MMOC assay, inhibition of DMBA-induced preneoplastic lesions *in vitro*** 3602, 5595, 6064, 7204, 8278, 10430, 10741, 11504, 20485, 20610, 21410, 21483.
- Cytotoxic, Molt4 hmn lymphoma cells** 3583, 5081, 13241, 15750, 16634.
- Cytotoxic, Mono-Mac-6 mononuclear cells** 2495, 4190, 4604, 5851, 5973, 7295, 10047, 17830.
- Cytotoxic, mouse alveolus non-cancer fibrocytes LMTK** 15750.
- Cytotoxic, mouse mammary organ culture model MMOC** 240, 4151, 4179, 4180.
- Cytotoxic, mouse TPA-induced skin tumor** 17763.
- Cytotoxic, MRC-5 hmn diploid embryonic cells** 19892.
- Cytotoxic, MT2 cells** 3816.
- Cytotoxic, MT-4 cells** 8436.
- Cytotoxic, MTT assay** 2985, 4893, 5375, 5551, 12397, 12398, 15652, 15916, 19536, 21845, 22299, 22653, 22654, 22655, 22988.
- Cytotoxic, mus mammary organ culture assay** 1453, 1454, 3568, 4151, 4282, 5679, 6497, 7788, 7824, 10741, 10827, 11504, 11804, 15714, 20326, 21440, 21483, 22705, 22715.
- Cytotoxic, mutant yeast strain RAD 52Y** 6710, 6711, 6714, 12537, 19061.
- Cytotoxic, NCI 60 hmn tumor cell lines screen** 3583, 14719, 17722, 19296.
- Cytotoxic, NCI-H1417 hmn small cell lung cancer cells** 17979.
- Cytotoxic, NCI-H187 hmn small cell lung cancer cells** 349, 526, 1277, 2244, 3416, 3429, 3708, 3940, 4775, 5064, 5276, 5827, 6759, 8220, 8221, 8222, 8235, 8315, 13484, 13487, 13489, 13490, 13492, 13493, 13494, 13495, 15494, 15495, 20671.
- Cytotoxic, NCI-H226 hmn non-small cell lung cancer cells** 1625, 4763, 4880, 10558, 20720, 20721, 20722, 20811.
- Cytotoxic, NCI-H23 hmn lung cancer cells** 3583, 4880.
- Cytotoxic, NCI-H460 hmn lung cancer cells** 2528, 4880, 7125, 7126, 7613, 7614, 7698, 7912, 8563, 8570, 8669, 8670, 8671, 9859, 9861, 9917, 10672, 10673, 11890, 13092, 13093, 13098, 13328, 16296, 16312, 18170, 18171, 18172, 18714, 20811.
- Cytotoxic, NCI-H522 hmn lung cancer cells** 1625, 3583, 4880.
- Cytotoxic, NK/LY ascites cancer cells** 13137.
- Cytotoxic, no explanation on cell species** 370, 576, 595, 597, 598, 1748, 1789, 1971, 2034, 2073, 2119, 2130, 2227, 2303, 2529, 2946, 3063, 3076, 3294, 3388, 3467, 3565, 4348, 4349, 4350, 4351, 4353, 4399, 4414, 5136, 5168, 5187, 5236, 6027, 6261, 6737, 7559, 7739, 8239, 9304, 9655, 11052, 11379, 11386, 11423, 11636, 12225, 12501, 12916, 13072, 13473, 13522, 14086, 14121, 14821, 14822, 14830, 14835, 14836, 15335, 15634, 15635, 15637, 15764, 15782, 15801, 16019, 16119, 16128, 16205, 16278, 16674, 16675, 16747, 16748, 16749, 16929, 16978, 17037, 17038, 17041, 17200, 17201, 17558, 17594, 17619, 17665, 17666, 17667, 17668, 17669, 17670, 17671, 18114, 18297, 18522, 18567, 18679, 18843, 19194, 19313, 19315, 19468, 19904, 19905, 19906, 19907, 20121, 20171, 20235, 20387, 20496, 20664, 20730, 21559, 21889, 22268, 22407, 22420, 22475, 22818, 22965, 22970, 22972, 22987.
- Cytotoxic, no reversal effect of VCR resistance** 1625.
- Cytotoxic, no significant differential cellular sensitivities when it was evaluated in the Japanese Foundation for Cancer Research 39 cell line assay** 18714.
- Cytotoxic, non-parvicellular lung cancer, with strong selectivity** 20813.
- Cytotoxic, normal EAC-E4cells** 7586, 7593.
- Cytotoxic, normal hmn cell, fibroblasts** 9669.
- Cytotoxic, normal Rkcells** 7586, 7593.
- Cytotoxic, NSCLC-N6 hmn non-small cell lung cancer cells** 10340, 10573.
- Cytotoxic, NSCLCN6-L16 non-small cell lung cancer cells** 16495.
- Cytotoxic, NUGC hmn stomach cancer cells** 955, 8935, 8936, 10344, 16891, 22114, 22459.
- Cytotoxic, NUGC-3 hmn stomach cancer cells** 2006, 4317, 4320, 4323, 5573, 5574, 7035, 13294, 17973, 20495.
- Cytotoxic, NUGC-4 hmn stomach cancer cells** 19535, 19537.
- Cytotoxic, ornithine decarboxylase inhibition assay** 1372, 5543, 15412.
- Cytotoxic, OVCAR-2780 ovarian adenocarcinoma cells** 12531, 12532, 12533.
- Cytotoxic, OVCAR-3 ovarian adenocarcinoma cells** 1617, 4128, 4880, 4891, 7044, 7698, 12511, 17979, 18673, 18714, 19308, 20811, 22962.
- Cytotoxic, OVCAR-4 ovarian adenocarcinoma cells** 4880.
- Cytotoxic, OVCAR-5 ovarian adenocarcinoma cells** 3583, 4880.
- Cytotoxic, OVCAR-8 ovarian adenocarcinoma cells** 4880, 18714.
- Cytotoxic, P₃₈₈ mouse lymphocytic leukemia cells** 378, 577, 913, 914, 915, 1008, 1306, 1367, 1691, 1924, 1925, 1926, 2005, 2047, 2109, 2219, 2260, 2303, 2304, 2677, 2694, 2811, 3181, 3257, 3266, 3267,

- 3268, 3271, 3476, 3602, 3710, 3829, 3936, 3974, 3975, 4135, 4291, 4471, 4680, 4690, 4708, 4986, 5327, 5841, 5843, 5901, 5941, 6010, 6014, 6165, 6181, 6183, 6204, 6204, 6284, 6285, 6289, 6328, 6402, 6404, 6405, 6606, 6642, 6759, 6759, 6760, 6761, 6776, 7568, 7569, 7611, 7674, 7675, 7677, 7681, 7682, 7683, 7684, 7740, 7764, 7788, 7789, 7951, 8167, 8203, 8204, 8205, 8556, 8824, 9035, 9226, 9362, 9544, 9594, 9883, 10116, 10462, 10468, 10511, 11428, 11494, 11605, 11842, 11854, 11855, 11856, 11858, 11860, 11861, 11862, 11863, 11978, 12122, 12125, 12254, 12886, 12887, 12888, 12964, 13023, 13038, 13468, 13469, 13470, 13673, 13685, 13808, 14139, 14254, 14492, 14572, 14645, 14646, 14846, 15073, 15074, 15598, 15645, 15739, 15762, 15792, 15879, 15919, 15920, 15921, 16122, 16261, 16262, 16282, 16283, 16343, 16356, 16403, 16411, 16427, 16429, 16495, 16601, 16661, 16662, 16695, 16733, 16966, 17218, 17557, 17591, 17603, 17696, 17973, 18033, 18044, 18054, 18057, 18444, 18472, 18485, 18523, 18754, 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18778, 18892, 18994, 19041, 19057, 19143, 19148, 19483, 19485, 19486, 19983, 19985, 20002, 20051, 20240, 20244, 20284, 20285, 20363, 20809, 20843, 21080, 22451, 22452, 22453, 22454, 22455, 22456, 22457, 22458, 22735, 23005.
- Cytotoxic, P₃₈₈/ADM doxorubicin-resistant mouse lymphocytic leukemia cells** 492.
- Cytotoxic, P₃₈₈/DOX cells** 16495.
- Cytotoxic, P₈₁₅** 4135.
- Cytotoxic, PACA-2 hmn pancreas cancer cells** 1320, 1321, 1322, 3457, 11269, 14906, 18240, 22781.
- Cytotoxic, PANC1 hmn pancreas cancer cells** 17979.
- Cytotoxic, panel of hmn cancer cell lines, according to established protocols of Likitwitayawuid 1993 and Seo 2001** 6346, 14342.
- Cytotoxic, partial reversal of doxorubicin resistance** 22830.
- Cytotoxic, parvicellular lung cancer, with strong selectivity** 20813.
- Cytotoxic, PBMC peripheral blood mononuclear cells** 11978, 17478.
- Cytotoxic, PC12 hmn lung cancer cells** 159, 1792, 3300, 6160, 22580.
- Cytotoxic, PC13** 2811.
- Cytotoxic, PC3 hmn prostatic cancer cells** 251, 1297, 1303, 1304, 1305, 1320, 1321, 1322, 2334, 2338, 2528, 3241, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3274, 3457, 3498, 3583, 4147, 4148, 4762, 4763, 4880, 5297, 5314, 6162, 6827, 6828, 9669, 10558, 11269, 11802, 12446, 14906, 14934, 14935, 14935, 16050, 17979, 18211, 18714, 19516, 19517, 19524, 19525, 19526, 20248, 20720, 20721, 20722, 20811, 20811, 20811, 21709, 23013.
- Cytotoxic, PC-3M-1E8** 11659, 20397.
- Cytotoxic, PC-6 hmn lung cancer cells** 17973.
- Cytotoxic, PD assay** 1310, 1679, 7788, 8946, 11864, 15084, 15085.
- Cytotoxic, platelet aggregation inhibitor** 22969.
- Cytotoxic, PLC/PRF/5 hmn liver cancer cells** 1992, 2102, 2106, 3143, 17252.
- Cytotoxic, polymorphism malignancy glioma** 16548, 16549.
- Cytotoxic, potato culture dish PD test** 15902.
- Cytotoxic, protein quantification assay** 4893.
- Cytotoxic, PSN1 hmn pancreas cancer cells** 5284, 5295, 6897, 9747, 14495, 14496, 14504, 14644, 14647.
- Cytotoxic, PTX10 ovarian cancer cells with β -tubulin mutation** 14934, 14935.
- Cytotoxic, QGY-7703 hmn liver cancer cells** 16686, 18483.
- Cytotoxic, quinone reductase induction assay** 1380, 1381, 1382, 1383, 1384, 1386, 1388, 1392, 1393, 1401, 1403, 1404, 1406, 1407, 1408, 1409, 1410, 1411, 1413, 1414, 1415, 1416, 1418, 1419, 1420, 1425, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 2468, 2857, 3602, 4282, 6228, 6246, 7670, 7788, 8278, 10430, 10827, 11504, 11804, 12953, 14074, 14075, 16498, 19542, 19910, 21918, 22615, 22715.
- Cytotoxic, RAD+ wild type yeast strain** 6710, 6711, 6714, 12537, 19061.
- Cytotoxic, radiosensitizing agent** 11179.
- Cytotoxic, Raji cells** 6254, 6776, 10068, 20010.
- Cytotoxic, RB cells** 18545.
- Cytotoxic, RL33 rbt lung cancer cells** 11980.
- Cytotoxic, Rous sarcoma virus** 3481.
- Cytotoxic, RPMI** 2677.
- Cytotoxic, RPMI-7951 melanoma cells** 3296, 16548, 16549, 17144, 17603, 17895, 17896, 18202, 20389, 22435.
- Cytotoxic, RPMI-8226 leukemia cells** 3583.
- Cytotoxic, RXF-393 renal cancer cells** 3583.
- Cytotoxic, RXF-631L renal cancer cells** 4880.
- Cytotoxic, S₁₈₀ mouse sarcoma cells** 3502, 8187, 8188, 13021, 16414, 22232.
- Cytotoxic, S-180V cells** 11179.
- Cytotoxic, Sca7901 hmn gastric adenocarcinoma cells** 4460.
- Cytotoxic, SCL hmn stomach cancer cells** 6621, 7016, 11405, 19535, 19537.
- Cytotoxic, SCL-37'6 hmn stomach cancer cells** 6621, 7016, 11405, 19535, 19537.
- Cytotoxic, SCL-6 hmn stomach cancer cells** 6621, 11405, 19535, 19537.
- Cytotoxic, SCL-9 hmn stomach cancer cells** 6621, 7016, 11405, 19535, 19537.
- Cytotoxic, SDK cells** 17528.
- Cytotoxic, Selective DNA-damaging activity** 1961, 3053.
- Cytotoxic, SF268 hmn brain tumor cells** 3583, 4880, 7126, 7912, 8563, 8570, 8669, 8670, 8671, 9859, 9861, 9917, 10672, 10673, 13092, 13093, 13098, 13328, 16296, 16312, 18170, 18171, 18172.
- Cytotoxic, SF295 hmn brain tumor cells** 3583, 4880, 18714.
- Cytotoxic, SF539 hmn brain tumor cells** 1625, 3583, 4111, 4112, 4113, 4880.
- Cytotoxic, SGC hmn stomach cancer cells** 6055.
- Cytotoxic, SGC7901 hmn stomach cancer cells** 12202.
- Cytotoxic, SiHa hmn cervical carcinomacells** 1992, 7032, 11977, 22077.
- Cytotoxic, SKBR3 hmn breast cancer cells** 5284, 5295, 6897, 9747, 14495, 14496, 14504, 14644, 14647.
- Cytotoxic, SKCO1 colorectal cancer cells** 4913.
- Cytotoxic, SK-MEL hmn caucasian melanoma cells** 11636, 18114.
- Cytotoxic, SK-MEL-2 hmn melanoma cells** 2334, 2338, 3583, 4147, 4148, 14934, 14934, 16050, 16370, 18011, 20679, 20680, 20681, 23013.
- Cytotoxic, SK-MEL-28 hmn melanoma cells** 3583.

- Cytotoxic, SK-MEL-5 hmn melanoma cells 3583, 5706.
- Cytotoxic, SK-MES-1 bronchogenic carcinoma cells 12398.
- Cytotoxic, SK-OV-3 ovarian adenocarcinoma cells 4880, 7535, 11636, 18011, 18114, 20679, 20680, 20681.
- Cytotoxic, SMMC-7721 hmn liver cancer cells 11203, 14828, 16675, 18034.
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