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Adenosine A₃ receptor

Granulopoiesis; Myelosuppression; 5-Fluorouracil; (Mouse) (Hofer, M. (538) 163)

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Adrenomedullin receptor antagonist

Migraine; Adrenomedullin; Cerebral blood flow; Middle cerebral artery; Middle meningeal artery (Juhl, L. (538) 101)

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Protocatechuic acid; Hydrogen peroxide; Oxidative stress; PC12 cells (Shui Guan (538) 73)

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Azaphenylalanine scaffold

Thrombin inhibitor; Mast cell; Histamine release; G protein; Basic secretagogue (Štampelj, M. (538) 182)

Baclofen

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Basic secretagogue

Thrombin inhibitor; Mast cell; Histamine release; G protein; Azaphenylalanine scaffold (Štampelj, M. (538) 182)

Calcium

Endothelin; ET_B (endothelin type B); Receptor; ERK1/2 (extracellular regulation kinase 1 and 2); Contraction (Luo, G. (538) 124)

Calcium-activated K⁺ channel

cAMP; Endothelium-derived hyperpolarizing factor; Mesenteric artery; Type 2 diabetes; (Rat) (Matsumoto, T. (538) 132)

Calpain

Corpus cavernosum; Diabetes; Endothelium; Erectile dysfunction; Neuro-pathy; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

cAMP

Calcium-activated K⁺ channel; Endothelium-derived hyperpolarizing factor; Mesenteric artery; Type 2 diabetes; (Rat) (Matsumoto, T. (538) 132)

(Canine)

5-HT₃ receptor; 5-HT₃ receptor agonist; 5-HT₃ receptor receptor antagonist; 5-HT_{3A}; (Dog) (Jensen, T.N. (538) 23)

Cannabinoid

2-Arachidonoylglycerol; Cannabinoid receptor agonist; Cannabinoid receptor antagonist; Inflammation; Ear swelling (Oka, S. (538) 154)

Cannabinoid receptor agonist

Cannabinoid; 2-Arachidonoylglycerol; Cannabinoid receptor antagonist; Inflammation; Ear swelling (Oka, S. (538) 154)

Cannabinoid receptor antagonist

Cannabinoid; 2-Arachidonoylglycerol; Cannabinoid receptor agonist; Inflammation; Ear swelling (Oka, S. (538) 154)

Carboxyamido-triazole

Human breast cancer; Cell cycle; Apoptosis; Mitochondrial membrane potential (Guo, L. (538) 15)

Cardamonin

Alpinia rafflesiana; RAW 264.7; Whole blood; Inflammatory mediator (Ahmad, S. (538) 188)

Cardiac hypertrophy

PPARγ; Fatty acid metabolism (Edgley, A.J. (538) 195)

Cathepsin S

Delayed-type hypersensitivity; Antagonist (Desai, S.N. (538) 168)

Cell cycle

Carboxyamido-triazole; Human breast cancer; Apoptosis; Mitochondrial membrane potential (Guo, L. (538) 15)

Cerebral blood flow

Migraine; Adrenomedullin; Adrenomedullin receptor antagonist; Middle cerebral artery; Middle meningeal artery (Juhl, L. (538) 101)

Charged amino acid

Dopamine transporter; Cocaine; Mutant; Glutamate (Dar, D.E. (538) 43)

Chymase

Mast cell; IL-8/MIP-2; Eosinophil; Neutrophil (Terakawa, M. (538) 175)

Cocaine

Dopamine transporter; Charged amino acid; Mutant; Glutamate (Dar, D.E. (538) 43)

Contraction

Endothelin; ET_B (endothelin type B); Receptor; ERK1/2 (extracellular regulation kinase 1 and 2); Calcium (Luo, G. (538) 124)

Corpus cavernosum

Calpain; Diabetes; Endothelium; Erectile dysfunction; Neuropathy; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

Cyclase-coupled

Dopamine D₁-like receptor; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

(Cyclooxygenase knockout mice)

Paracetamol; Diclofenac; Aminopyrine; Prostaglandin; Cyclooxygenase-3; Writhing (Ayoub, S.S. (538) 57)

Cyclooxygenase-3

Paracetamol; Diclofenac; Aminopyrine; Prostaglandin; Writhing; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

Delayed-type hypersensitivity

Cathepsin S; Antagonist (Desai, S.N. (538) 168)

Diabetes

Calpain; Corpus cavernosum; Endothelium; Erectile dysfunction; Neuropathy; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

Diclofenac

Paracetamol; Aminopyrine; Prostaglandin; Cyclooxygenase-3; Writhing; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

(Dog)

5-HT₃ receptor; 5-HT₃ receptor agonist; 5-HT₃ receptor receptor antagonist; 5-HT_{3A}; (Canine) (Jensen, T.N. (538) 23)

Dopamine D₁-like receptor

Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Dopamine D₁-like:D₂-like receptor interaction

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Dopamine transporter

Cocaine; Charged amino acid; Mutant; Glutamate (Dar, D.E. (538) 43)

Drug discrimination

Gamma-hydroxybutyrate; GHB; Baclofen; SKF97541; GABA; Xyrem; Sodium oxybate (Carter, L.P. (538) 85)

Ear swelling

Cannabinoid; 2-Arachidonoylglycerol; Cannabinoid receptor agonist; Cannabinoid receptor antagonist; Inflammation (Oka, S. (538) 154)

Endothelial cell

Superoxide; NADPH oxidase [nicotinamide adenine dinucleotide phosphate oxidase]; Pulmonary artery (Muzaffar, S. (538) 108)

Endothelin

ET_B (endothelin type B); Receptor; ERK1/2 (extracellular regulation kinase 1 and 2); Calcium; Contraction (Luo, G. (538) 124)

Endothelium

Calpain; Corpus cavernosum; Diabetes; Erectile dysfunction; Neuropathy; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

Endothelium-derived hyperpolarizing factor

Calcium-activated K⁺ channel; cAMP; Mesenteric artery; Type 2 diabetes; (Rat) (Matsumoto, T. (538) 132)

Eosinophil

Chymase; Mast cell; IL-8/MIP-2; Neutrophil (Terakawa, M. (538) 175)

Epithelial thickness and cell proliferation

(R)- α -methylhistamine; Histamine H₃ receptor; Gastrointestinal mucosa; (Rat) (Grandi, D. (538) 141)

Erectile dysfunction

Calpain; Corpus cavernosum; Diabetes; Endothelium; Neuropathy; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

ERK1/2 (extracellular regulation kinase 1 and 2)

Endothelin; ET_B (endothelin type B); Receptor; Calcium; Contraction (Luo, G. (538) 124)

ET_B (endothelin type B)

Endothelin; Receptor; ERK1/2 (extracellular regulation kinase 1 and 2); Calcium; Contraction (Luo, G. (538) 124)

Fatty acid metabolism

Cardiac hypertrophy; PPAR γ (Edgley, A.J. (538) 195)

5-Fluorouracil

Adenosine A₃ receptor; Granulopoiesis; Myelosuppression; (Mouse) (Hofer, M. (538) 163)

Fluoxetine

Atropine; Hot-plate; Naloxone; Neuropathic pain; Streptozotocin; Tail-immersion (Anjaneyulu, M. (538) 80)

G protein

Thrombin inhibitor; Mast cell; Histamine release; Basic secretagogue; Azaphenylalanine scaffold (Štempelj, M. (538) 182)

GABA

Gamma-hydroxybutyrate; GHB; Baclofen; SKF97541; Xyrem; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

Gamma-hydroxybutyrate

GHB; Baclofen; SKF97541; GABA; Xyrem; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

Gastrointestinal mucosa

(R)- α -methylhistamine; Histamine H₃ receptor; Epithelial thickness and cell proliferation; (Rat) (Grandi, D. (538) 141)

GHB

Gamma-hydroxybutyrate; Baclofen; SKF97541; GABA; Xyrem; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

Glutamate

Dopamine transporter; Cocaine; Charged amino acid; Mutant (Dar, D.E. (538) 43)

Granulopoiesis

Adenosine A₃ receptor; Myelosuppression; 5-Fluorouracil; (Mouse) (Hofer, M. (538) 163)

High glucose

Hypertension; Nitric oxide; Protein kinase C- β II; Vascular smooth muscle cell (Pacheco, M.E. (538) 115)

Hippocampal damage

Ischemic stroke; Learning and memory; Melanocortins; Therapeutic window; (Mongolian gerbil) (Giuliani, D. (538) 48)

Histamine H₃ receptor

(R)- α -methylhistamine; Gastrointestinal mucosa; Epithelial thickness and cell proliferation; (Rat) (Grandi, D. (538) 141)

Histamine release

Thrombin inhibitor; Mast cell; G protein; Basic secretagogue; Azaphenylalanine scaffold (Štampelj, M. (538) 182)

Hot-plate

Atropine; Fluoxetine; Naloxone; Neuropathic pain; Streptozotocin; Tail-immersion (Anjaneyulu, M. (538) 80)

5-HT₃ receptor

5-HT₃ receptor agonist; 5-HT₃ receptor receptor antagonist; 5-HT_{3A}; (Canine); (Dog) (Jensen, T.N. (538) 23)

5-HT₃ receptor agonist

5-HT₃ receptor; 5-HT₃ receptor receptor antagonist; 5-HT_{3A}; (Canine); (Dog) (Jensen, T.N. (538) 23)

5-HT₃ receptor receptor antagonist

5-HT₃ receptor; 5-HT₃ receptor agonist; 5-HT_{3A}; (Canine); (Dog) (Jensen, T.N. (538) 23)

5-HT_{3A}

5-HT₃ receptor; 5-HT₃ receptor agonist; 5-HT₃ receptor receptor antagonist; (Canine); (Dog) (Jensen, T.N. (538) 23)

Human breast cancer

Carboxyamido-triazole; Cell cycle; Apoptosis; Mitochondrial membrane potential (Guo, L. (538) 15)

Hydrogen peroxide

Protocatechuic acid; Oxidative stress; Apoptosis; PC12 cells (Shui Guan (538) 73)

Hyperalgesia

Minocycline; Neuropathic pain; Allodynia; Interleukin-6 (Zanjani, T.M. (538) 66)

Hypertension

High glucose; Nitric oxide; Protein kinase C- β II; Vascular smooth muscle cell (Pacheco, M.E. (538) 115)

Ibutilast

Phosphodiesterase; Neurological disease; Respiratory disease (Gibson, L.C.D. (538) 39)

IL-8/MIP-2

Chymase; Mast cell; Eosinophil; Neutrophil (Terakawa, M. (538) 175)

Inflammation

Cannabinoid; 2-Arachidonoylglycerol; Cannabinoid receptor agonist; Cannabinoid receptor antagonist; Ear swelling (Oka, S. (538) 154)

Inflammatory mediator

Cardamonin; *Alpinia rafflesiana*; RAW 264.7; Whole blood (Ahmad, S. (538) 188)

Interleukin-6

Minocycline; Neuropathic pain; Hyperalgesia; Allodynia (Zanjani, T.M. (538) 66)

Ischemic stroke

Learning and memory; Hippocampal damage; Melanocortins; Therapeutic window; (Mongolian gerbil) (Giuliani, D. (538) 48)

Jaw movement

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Oro-facial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Learning and memory

Ischemic stroke; Hippocampal damage; Melanocortins; Therapeutic window; (Mongolian gerbil) (Giuliani, D. (538) 48)

Lidocaine

Voltage dependent sodium channel; Tolperisone; *Xenopus laevis* oocyte; Local anesthetic (Hofer, D. (538) 5)

Lipoprotein lipase

Raloxifene; 3T3-L1 adipocyte; Adiponectin (Murase, Y. (538) 1)

Local anesthetic

Voltage dependent sodium channel; Tolperisone; Lidocaine; *Xenopus laevis* oocyte (Hofer, D. (538) 5)

Mast cell

Chymase; IL-8/MIP-2; Eosinophil; Neutrophil (Terakawa, M. (538) 175)

Thrombin inhibitor; Histamine release; G protein; Basic secretagogue; Azaphenylalanine scaffold (Štampelj, M. (538) 182)

Melanocortins

Ischemic stroke; Learning and memory; Hippocampal damage; Therapeutic window; (Mongolian gerbil) (Giuliani, D. (538) 48)

Mesangial cell

YM218; Vasopressin V_{1A} receptor; Nonpeptide antagonist (Tahara, A. (538) 32)

Mesenteric artery

Calcium-activated K⁺ channel; cAMP; Endothelium-derived hyperpolarizing factor; Type 2 diabetes; (Rat) (Matsumoto, T. (538) 132)

Middle cerebral artery

Migraine; Adrenomedullin; Adrenomedullin receptor antagonist; Cerebral blood flow; Middle meningeal artery (Juhl, L. (538) 101)

Middle meningeal artery

Migraine; Adrenomedullin; Adrenomedullin receptor antagonist; Cerebral blood flow; Middle cerebral artery (Juhl, L. (538) 101)

Migraine

Adrenomedullin; Adrenomedullin receptor antagonist; Cerebral blood flow; Middle cerebral artery; Middle meningeal artery (Juhl, L. (538) 101)

Minocycline

Neuropathic pain; Hyperalgesia; Allodynia; Interleukin-6 (Zanjani, T.M. (538) 66)

Mitochondrial membrane potential

Carboxyamido-triazole; Human breast cancer; Cell cycle; Apoptosis (Guo, L. (538) 15)

(Mongolian gerbil)

Ischemic stroke; Learning and memory; Hippocampal damage; Melanocortins; Therapeutic window (Giuliani, D. (538) 48)

(Mouse)

Adenosine A₃ receptor; Granulopoiesis; Myelosuppression; 5-Fluorouracil (Hofer, M. (538) 163)

Mutant

Dopamine transporter; Cocaine; Charged amino acid; Glutamate (Dar, D.E. (538) 43)

Myelosuppression

Adenosine A₃ receptor; Granulopoiesis; 5-Fluorouracil; (Mouse) (Hofer, M. (538) 163)

NADPH oxidase [nicotinamide adenine dinucleotide phosphate oxidase]
Superoxide; Endothelial cell; Pulmonary artery (Muzaffar, S. (538) 108)

Naloxone

Atropine; Hot-plate; Fluoxetine; Neuropathic pain; Streptozotocin; Tail-immersion (Anjaneyulu, M. (538) 80)

Neurological disease

Phosphodiesterase; Ibudilast; Respiratory disease (Gibson, L.C.D. (538) 39)

Neuropathic pain

Minocycline; Hyperalgesia; Allodynia; Interleukin-6 (Zanjani, T.M. (538) 66)

Atropine; Hot-plate; Fluoxetine; Naloxone; Streptozotocin; Tail-immersion (Anjaneyulu, M. (538) 80)

Neuropathy

Calpain; Corpus cavernosum; Diabetes; Endothelium; Erectile dysfunction; Nitric oxide; Smooth muscle (Nangle, M.R. (538) 148)

Neutrophil

Chymase; Mast cell; IL-8/MIP-2; Eosinophil (Terakawa, M. (538) 175)

Nitric oxide

High glucose; Hypertension; Protein kinase C- β II; Vascular smooth muscle cell (Pacheco, M.E. (538) 115)

Calpain; Corpus cavernosum; Diabetes; Endothelium; Erectile dysfunction; Neuropathy; Smooth muscle (Nangle, M.R. (538) 148)

Non-cyclase-coupled

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Nonpeptide antagonist

YM218; Vasopressin V_{1A} receptor; Mesangial cell (Tahara, A. (538) 32)

Orofacial movement

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; SK&F 83822; SK&F 83959; (Rat) (Fujita, S. (538) 94)

Oxidative stress

Protocatechuic acid; Hydrogen peroxide; Apoptosis; PC12 cells (Shui Guan (538) 73)

Paracetamol

Diclofenac; Aminopyrine; Prostaglandin; Cyclooxygenase-3; Writhing; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

PC12 cells

Protocatechuic acid; Hydrogen peroxide; Oxidative stress; Apoptosis (Shui Guan (538) 73)

Phosphodiesterase

Ibudilast; Neurological disease; Respiratory disease (Gibson, L.C.D. (538) 39)

PPAR γ

Cardiac hypertrophy; Fatty acid metabolism (Edgley, A.J. (538) 195)

Prostaglandin

Paracetamol; Diclofenac; Aminopyrine; Cyclooxygenase-3; Writhing; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

Protein kinase C- β II

High glucose; Hypertension; Nitric oxide; Vascular smooth muscle cell (Pacheco, M.E. (538) 115)

Protocatechuic acid

Hydrogen peroxide; Oxidative stress; Apoptosis; PC12 cells (Shui Guan (538) 73)

Pulmonary artery

Superoxide; NADPH oxidase [nicotinamide adenine dinucleotide phosphate oxidase]; Endothelial cell (Muzaffar, S. (538) 108)

Raloxifene

3T3-L1 adipocyte; Adiponectin; Lipoprotein lipase (Murase, Y. (538) 1)

(R)- α -methylhistamine

Histamine H₃ receptor; Gastrointestinal mucosa; Epithelial thickness and cell proliferation; (Rat) (Grandi, D. (538) 141)

(Rat)

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; SK&F 83959 (Fujita, S. (538) 94)

Calcium-activated K⁺ channel; cAMP; Endothelium-derived hyperpolarizing factor; Mesenteric artery; Type 2 diabetes (Matsumoto, T. (538) 132)

(R)- α -methylhistamine; Histamine H₃ receptor; Gastrointestinal mucosa; Epithelial thickness and cell proliferation (Grandi, D. (538) 141)

RAW 264.7

Cardamomin; *Alpinia rafflesiana*; Whole blood; Inflammatory mediator (Ahmad, S. (538) 188)

Receptor

Endothelin; ET_B (endothelin type B); ERK1/2 (extracellular regulation kinase 1 and 2); Calcium; Contraction (Luo, G. (538) 124)

Respiratory disease

Phosphodiesterase; Ibudilast; Neurological disease (Gibson, L.C.D. (538) 39)

SK&F 83822

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83959; (Rat) (Fujita, S. (538) 94)

SK&F 83959

Dopamine D₁-like receptor; Cyclase-coupled; Dopamine D₁-like receptor; Non-cyclase-coupled; Dopamine D₁-like:D₂-like receptor interaction; Jaw movement; Orofacial movement; SK&F 83822; (Rat) (Fujita, S. (538) 94)

SKF97541

Gamma-hydroxybutyrate; GHB; Baclofen; GABA; Xyrem; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

Smooth muscle

Calpain; Corpus cavernosum; Diabetes; Endothelium; Erectile dysfunction; Neuropathy; Nitric oxide (Nangle, M.R. (538) 148)

Sodium oxybate

Gamma-hydroxybutyrate; GHB; Baclofen; SKF97541; GABA; Xyrem; Drug discrimination (Carter, L.P. (538) 85)

Streptozotocin

Atropine; Hot-plate; Fluoxetine; Naloxone; Neuropathic pain; Tail-immersion (Anjaneyulu, M. (538) 80)

Superoxide

NADPH oxidase [nicotinamide adenine dinucleotide phosphate oxidase]; Endothelial cell; Pulmonary artery (Muzaffar, S. (538) 108)

3T3-L1 adipocyte

Raloxifene; Adiponectin; Lipoprotein lipase (Murase, Y. (538) 1)

Tail-immersion

Atropine; Hot-plate; Fluoxetine; Naloxone; Neuropathic pain; Streptozotocin (Anjaneyulu, M. (538) 80)

Therapeutic window

Ischemic stroke; Learning and memory; Hippocampal damage; Melanocortins; (Mongolian gerbil) (Giuliani, D. (538) 48)

Thrombin inhibitor

Mast cell; Histamine release; G protein; Basic secretagogue; Azaphenylalanine scaffold (Štempelj, M. (538) 182)

Tolperisone

Voltage dependent sodium channel; Lidocaine; *Xenopus laevis* oocyte; Local anesthetic (Hofer, D. (538) 5)

Type 2 diabetes

Calcium-activated K⁺ channel; cAMP; Endothelium-derived hyperpolarizing factor; Mesenteric artery; (Rat) (Matsumoto, T. (538) 132)

Vascular smooth muscle cell

High glucose; Hypertension; Nitric oxide; Protein kinase C-βII (Pacheco, M.E. (538) 115)

Vasopressin V_{1A} receptor

YM218; Nonpeptide antagonist; Mesangial cell (Tahara, A. (538) 32)

Voltage dependent sodium channel

Tolperisone; Lidocaine; *Xenopus laevis* oocyte; Local anesthetic (Hofer, D. (538) 5)

Whole blood

Cardamonin; *Alpinia rafflesiana*; RAW 264.7; Inflammatory mediator (Ahmad, S. (538) 188)

Writhing

Paracetamol; Diclofenac; Aminopyrine; Prostaglandin; Cyclooxygenase-3; (Cyclooxygenase knockout mice) (Ayoub, S.S. (538) 57)

***Xenopus laevis* oocyte**

Voltage dependent sodium channel; Tolperisone; Lidocaine; Local anesthetic (Hofer, D. (538) 5)

Xyrem

Gamma-hydroxybutyrate; GHB; Baclofen; SKF97541; GABA; Sodium oxybate; Drug discrimination (Carter, L.P. (538) 85)

YM218

Vasopressin V_{1A} receptor; Nonpeptide antagonist; Mesangial cell (Tahara, A. (538) 32)