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Adenylate cyclase

Ligustrazine; Coronary artery, porcine; Ca^{2+} channel, L-type (Shan Au, A.L. (468) 199)

Adenylyl cyclase

Bromocriptine; Corticosterone; Zona fasciculata–reticularis cell; Cytochrome P450sc; StAR protein (Kan, S.-F. (468) 141)

α_2 -Adrenoceptor subtype

Pain; Hyperalgesia; Carrageenan; Morphine (Lähdesmäki, J. (468) 183)

Alcohol preference

(Selected rat line); Risperidone; Food consumption; Locomotor activity (Ingman, K. (468) 121)

Alzheimer's disease

Muscarinic receptor; Amyloid precursor protein (Qiu, Y. (468) 1)

Ammonia neurotoxicity

NMDA receptor; cGMP; Hydroxyl radical; Microdialysis; Striatum; Taurine (Hilgier, W. (468) 21)

Amyloid precursor protein

Muscarinic receptor; Alzheimer's disease (Qiu, Y. (468) 1)

Anaesthetic

GABA_A receptor; GABA (γ -aminobutyric acid); Extrasynaptic receptor; Inhibition; Benzodiazepine (Eghbali, M. (468) 75)

Antibody

Tachykinin NK₁ receptor; Substance P; Neurokinin A; Peptide receptor antagonist; Hydropathy (Wijkhuisen, A. (468) 175)

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Erycristagallin; (*Erythrina mildbraedii*); Arachidonic acid metabolism; 5-Lipoxygenase inhibition (Njamen, D. (468) 67)

Antinociception

Inflammatory hyperalgesia; NMDA receptor; Spinal cord; Tyrosine kinase inhibitor (Sato, E. (468) 191)

Antioxidant property

Permeability transition pore; Binding site; Specific; Mitochondrion; Liver; (Rat) (Elimadi, A. (468) 93)

Aorta

Caesalpinia sappan L.; Brazilin; Vasorelaxation; Endothelial cell; Nitric oxide (NO); Nitric oxide synthase (NOS); Ca^{2+} influx (Hu, C.M. (468) 37)

Arachidonic acid metabolism

Erycristagallin; (*Erythrina mildbraedii*); 5-Lipoxygenase inhibition; Anti-inflammatory activity (Njamen, D. (468) 67)

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GABA_B receptor; L-Amino acid; Dipeptide; Neocortex, rat; Potentiator (Kerr, D.I.B. (468) 103)

BAY 41-8543

BAY 58-2667; Kinetics; Heme; Nitric oxide (NO); Soluble guanylyl cyclase (Schmidt, P. (468) 167)

Benzodiazepine

GABA_A receptor; GABA (γ -aminobutyric acid); Extrasynaptic receptor; Inhibition; Anaesthetic (Eghbali, M. (468) 75)

Binding site

Permeability transition pore; Specific; Antioxidant property; Mitochondrion; Liver; (Rat) (Elimadi, A. (468) 93)

Bioluminescence assay

PTH (Parathyroid hormone); Tuberoinfundibular peptide (TIP39); PTH2 receptor; Proliferation; Luciferase gene-reporter assay (Misiano, P. (468) 159)

Brazilin

Caesalpinia sappan L.; Vasorelaxation; Endothelial cell; Aorta; Nitric oxide (NO); Nitric oxide synthase (NOS); Ca^{2+} influx (Hu, C.M. (468) 37)

Bromocriptine

Corticosterone; Zona fasciculata–reticularis cell; Adenylyl cyclase; Cytochrome P450sc; StAR protein (Kan, S.-F. (468) 141)

Ca^{2+} channel, L-type

Ligustrazine; Coronary artery, porcine; Adenylate cyclase (Shan Au, A.L. (468) 199)

Caesalpinia sappan L.

Brazilin; Vasorelaxation; Endothelial cell; Aorta; Nitric oxide (NO); Nitric oxide synthase (NOS); Ca^{2+} influx (Hu, C.M. (468) 37)

Ca^{2+} influx

Caesalpinia sappan L.; Brazilin; Vasorelaxation; Endothelial cell; Aorta; Nitric oxide (NO); Nitric oxide synthase (NOS) (Hu, C.M. (468) 37)

Ca^{2+} mobilization

Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Carrageenan

Pain; Hyperalgesia; α_2 -Adrenoceptor subtype; Morphine (Lähdesmäki, J. (468) 183)

Catalepsy

Muscarinic receptor; Extrapyramidal side effect; Haloperidol; Scopolamine; Knockout mouse (Karasawa, H. (468) 15)

Catecholamine

CDP-choline; Choline; Cytidine; Haemorrhagic shock; Vasopressin (Savci, V. (468) 129)

CDP-choline

Choline; Cytidine; Haemorrhagic shock; Vasopressin; Catecholamine (Savci, V. (468) 129)

Central nervous system

Gastric mucosa; Histamine H₂ receptor (Fukushima, Y. (468) 47)

cGMP

Ammonia neurotoxicity; NMDA receptor; Hydroxyl radical; Microdialysis; Striatum; Taurine (Hilgier, W. (468) 21)

Choline

CDP-choline; Cytidine; Haemorrhagic shock; Vasopressin; Catecholamine (Savci, V. (468) 129)

Coronary artery, porcine

Ligustrazine; Adenylate cyclase; Ca²⁺ channel, L-type (Shan Au, A.L. (468) 199)

Corticosterone

Bromocriptine; Zona fasciculata–reticularis cell; Adenylate cyclase; Cytochrome P450scc; StAR protein (Kan, S.-F. (468) 141)

Cyclosporine

Testosterone; Endothelium dysfunction; Renal vasculature; Gonadectomy (El-Mas, M.M. (468) 217)

Cytidine

CDP-choline; Choline; Haemorrhagic shock; Vasopressin; Catecholamine (Savci, V. (468) 129)

Cytochrome P450scc

Bromocriptine; Corticosterone; Zona fasciculata–reticularis cell; Adenylate cyclase; StAR protein (Kan, S.-F. (468) 141)

Dexamethasone

Lung eosinophilia; ICAM-1 (intercellular adhesion molecule); Sephadex bead; TNF- α (tumor necrosis factor- α); VCAM-1 (vascular cell adhesion molecule) (Ito, A. (468) 59)

Diadenosine polyphosphate

Ca²⁺ mobilization; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Diinosine pentaphosphate

Ca²⁺ mobilization; Diadenosine polyphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Dipeptide

GABA_B receptor; L-Amino acid; Baclofen; Neocortex, rat; Potentiator (Kerr, D.I.B. (468) 103)

Dopamine

Rimcazole; GBR 12909 (Katz, J.L. (468) 109)

Endothelial cell

Caesalpinia sappan L.; Brazilin; Vasorelaxation; Aorta; Nitric oxide (NO); Nitric oxide synthase (NOS); Ca²⁺ influx (Hu, C.M. (468) 37)

Endothelin

Salt; Hypertension; Kidney, rat; Genetic (Rothermund, L. (468) 209)

Endothelium dysfunction

Cyclosporine; Testosterone; Renal vasculature; Gonadectomy (El-Mas, M.M. (468) 217)

Erycristagallin

(*Erythrina mildbraedii*); Arachidonic acid metabolism; 5-Lipoxygenase inhibition; Anti-inflammatory activity (Njamen, D. (468) 67)

(*Erythrina mildbraedii*)

Erycristagallin; Arachidonic acid metabolism; 5-Lipoxygenase inhibition; Anti-inflammatory activity (Njamen, D. (468) 67)

Evans blue

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Extrapyramidal side effect

Muscarinic receptor; Catalepsy; Haloperidol; Scopolamine; Knockout mouse (Karasawa, H. (468) 15)

Extrasynaptic receptor

GABA_A receptor; GABA (γ -aminobutyric acid); Inhibition; Anaesthetic; Benzodiazepine (Eghbali, M. (468) 75)

Food consumption

(Selected rat line); Alcohol preference; Risperidone; Locomotor activity (Ingman, K. (468) 121)

Fructose-1,6-bisphosphatase

Glucose output, hepatic; Gluconeogenesis; Glucose-6-phosphatase; YM440; Glucose, blood (Kurosaki, E. (468) 151)

GABA (γ -aminobutyric acid)

GABA_A receptor; Extrasynaptic receptor; Inhibition; Anaesthetic; Benzodiazepine (Eghbali, M. (468) 75)

GABA_A receptor

GABA (γ -aminobutyric acid); Extrasynaptic receptor; Inhibition; Anaesthetic; Benzodiazepine (Eghbali, M. (468) 75)

GABA_B receptor

L-Amino acid; Dipeptide; Baclofen; Neocortex, rat; Potentiator (Kerr, D.I.B. (468) 103)

Gastric mucosa

Central nervous system; Histamine H₂ receptor (Fukushima, Y. (468) 47)

GBR 12909

Rimcazole; Dopamine (Katz, J.L. (468) 109)

Genetic

Salt; Hypertension; Endothelin; Kidney, rat (Rothermund, L. (468) 209)

Ginseng

Ginsenoside; Protein kinase C; K⁺ channel; G protein-coupled inwardly rectifying; *Xenopus* oocyte (Choi, S. (468) 83)

Ginsenoside

Ginseng; Protein kinase C; K⁺ channel; G protein-coupled inwardly rectifying; *Xenopus* oocyte (Choi, S. (468) 83)

Gluconeogenesis

Glucose output, hepatic; Glucose-6-phosphatase; Fructose-1,6-bisphosphatase; YM440; Glucose, blood (Kurosaki, E. (468) 151)

Glucose, blood

Glucose output, hepatic; Gluconeogenesis; Glucose-6-phosphatase; Fructose-1,6-bisphosphatase; YM440 (Kurosaki, E. (468) 151)

Glucose output, hepatic

Gluconeogenesis; Glucose-6-phosphatase; Fructose-1,6-bisphosphatase; YM440; Glucose, blood (Kurosaki, E. (468) 151)

Glucose-6-phosphatase

Glucose output, hepatic; Gluconeogenesis; Fructose-1,6-bisphosphatase; YM440; Glucose, blood (Kurosaki, E. (468) 151)

Gonadectomy

Cyclosporine; Testosterone; Endothelium dysfunction; Renal vasculature (El-Mas, M.M. (468) 217)

G protein-coupled inwardly rectifying

Ginseng; Ginsenoside; Protein kinase C; K^+ channel; *Xenopus* oocyte (Choi, S. (468) 83)

G protein-coupled receptor

Ca^{2+} mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; MRS-2197; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Haemorrhagic shock

CDP-choline; Choline; Cytidine; Vasopressin; Catecholamine (Savci, V. (468) 129)

Haloperidol

Muscarinic receptor; Catalepsy; Extrapyramidal side effect; Scopolamine; Knockout mouse (Karasawa, H. (468) 15)

Heme

BAY 41-8543; BAY 58-2667; Kinetics; Nitric oxide (NO); Soluble guanylyl cyclase (Schmidt, P. (468) 167)

Histamine H_2 receptor

Gastric mucosa; Central nervous system (Fukushima, Y. (468) 47)

Hydrophathy

Tachykinin NK_1 receptor; Substance P; Neurokinin A; Peptide receptor antagonist; Antibody (Wijkhuisen, A. (468) 175)

Hydroxyl radical

Ammonia neurotoxicity; NMDA receptor; cGMP; Microdialysis; Striatum; Taurine (Hilgier, W. (468) 21)

Hyperalgesia

Pain; Carrageenan; α_2 -Adrenoceptor subtype; Morphine (Lähdesmäki, J. (468) 183)

Hypercholesterolemia

Isoprostane; Vasodilatation; TP receptor; Thromboxane (Ishizuka, T. (468) 27)

Hypertension

Salt; Endothelin; Kidney, rat; Genetic (Rothermund, L. (468) 209)

ICAM-1 (intercellular adhesion molecule)

Dexamethasone; Lung eosinophilia; Sephadex bead; TNF- α (tumor necrosis factor- α); VCAM-1 (vascular cell adhesion molecule) (Ito, A. (468) 59)

Inflammatory hyperalgesia

NMDA receptor; Spinal cord; Tyrosine kinase inhibitor; Antinociception (Sato, E. (468) 191)

Inhibition

GABA $_A$ receptor; GABA (γ -aminobutyric acid); Extrasynaptic receptor; Anaesthetic; Benzodiazepine (Eghbali, M. (468) 75)

Isoprostane

Vasodilatation; Hypercholesterolemia; TP receptor; Thromboxane (Ishizuka, T. (468) 27)

 K^+ channel

Ginseng; Ginsenoside; Protein kinase C; G protein-coupled inwardly rectifying; *Xenopus* oocyte (Choi, S. (468) 83)

Kidney, rat

Salt; Hypertension; Endothelin; Genetic (Rothermund, L. (468) 209)

Kinetics

BAY 41-8543; BAY 58-2667; Heme; Nitric oxide (NO); Soluble guanylyl cyclase (Schmidt, P. (468) 167)

Knockout mouse

Muscarinic receptor; Catalepsy; Extrapyramidal side effect; Haloperidol; Scopolamine (Karasawa, H. (468) 15)

L-Amino acid

GABA $_B$ receptor; Dipeptide; Baclofen; Neocortex, rat; Potentiator (Kerr, D.I.B. (468) 103)

Ligustrazine

Coronary artery, porcine; Adenylate cyclase; Ca^{2+} channel, L-type (Shan Au, A.L. (468) 199)

5-Lipoxygenase inhibition

Erycristagallin; (*Erythrina mildbraedii*); Arachidonic acid metabolism; Anti-inflammatory activity (Njamen, D. (468) 67)

Liver

Permeability transition pore; Binding site; Specific; Antioxidant property; Mitochondrion; (Rat) (Elimadi, A. (468) 93)

Locomotor activity

(Selected rat line); Alcohol preference; Risperidone; Food consumption (Ingman, K. (468) 121)

Luciferase gene-reporter assay

PTH (Parathyroid hormone); Tuberoinfundibular peptide (TIP39); PTH2 receptor; Proliferation; Bioluminescence assay (Misiano, P. (468) 159)

Lung eosinophilia

Dexamethasone; ICAM-1 (intercellular adhesion molecule); Sephadex bead; TNF- α (tumor necrosis factor- α); VCAM-1 (vascular cell adhesion molecule) (Ito, A. (468) 59)

Microdialysis

Ammonia neurotoxicity; NMDA receptor; cGMP; Hydroxyl radical; Striatum; Taurine (Hilgier, W. (468) 21)

Mitochondrion

Permeability transition pore; Binding site; Specific; Antioxidant property; Liver; (Rat) (Elimadi, A. (468) 93)

Morphine

Pain; Hyperalgesia; Carrageenan; α_2 -Adrenoceptor subtype (Lähdesmäki, J. (468) 183)

MRS-2197

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; P2 receptor; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Muscarinic receptor

Amlyoid precursor protein; Alzheimer's disease (Qiu, Y. (468) 1)

Catalepsy; Extrapyramidal side effect; Haloperidol; Scopolamine; Knock-out mouse (Karasawa, H. (468) 15)

Neocortex, rat

GABA_B receptor; L-Amino acid; Dipeptide; Baclofen; Potentiator (Kerr, D.I.B. (468) 103)

Neurokinin A

Tachykinin NK₁ receptor; Substance P; Peptide receptor antagonist; Hydropathy; Antibody (Wijkhuisen, A. (468) 175)

Nitric oxide (NO)

Caesalpinia sappan L.; Brazilin; Vasorelaxation; Endothelial cell; Aorta; Nitric oxide synthase (NOS); Ca²⁺ influx (Hu, C.M. (468) 37)

BAY 41-8543; BAY 58-2667; Kinetics; Heme; Soluble guanylyl cyclase (Schmidt, P. (468) 167)

Nitric oxide synthase (NOS)

Caesalpinia sappan L.; Brazilin; Vasorelaxation; Endothelial cell; Aorta; Nitric oxide (NO); Ca²⁺ influx (Hu, C.M. (468) 37)

NMDA receptor

Ammonia neurotoxicity; cGMP; Hydroxyl radical; Microdialysis; Striatum; Taurine (Hilgier, W. (468) 21)

Inflammatory hyperalgesia; Spinal cord; Tyrosine kinase inhibitor; Antinociception (Sato, E. (468) 191)

Pain

Hyperalgesia; Carrageenan; α₂-Adrenoceptor subtype; Morphine Lähdesmäki, J. (468) 183)

Peptide receptor antagonist

Tachykinin NK₁ receptor; Substance P; Neurokinin A; Hydropathy; Antibody (Wijkhuisen, A. (468) 175)

Permeability transition pore

Binding site; Specific; Antioxidant property; Mitochondrion; Liver; (Rat) (Elimadi, A. (468) 93)

Potentiator

GABA_B receptor; L-Amino acid; Dipeptide; Baclofen; Neocortex, rat (Kerr, D.I.B. (468) 103)

PPADS

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

P2 receptor

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; PPADS; Reactive blue 2; Suramin (Laubinger, W. (468) 9)

Proliferation

PTH (Parathyroid hormone); Tuberoindubular peptide (TIP39); PTH2 receptor; Luciferase gene-reporter assay; Bioluminescence assay (Misiano, P. (468) 159)

Protein kinase C

Ginseng; Ginsenoside; K⁺ channel; G protein-coupled inwardly rectifying; *Xenopus* oocyte (Choi, S. (468) 83)

PTH (Parathyroid hormone)

Tuberoindubular peptide (TIP39); PTH2 receptor; Proliferation; Luciferase gene-reporter assay; Bioluminescence assay (Misiano, P. (468) 159)

PTH2 receptor

PTH (Parathyroid hormone); Tuberoindubular peptide (TIP39); Proliferation; Luciferase gene-reporter assay; Bioluminescence assay (Misiano, P. (468) 159)

(Rat)

Permeability transition pore; Binding site; Specific; Antioxidant property; Mitochondrion; Liver (Elimadi, A. (468) 93)

Reactive blue 2

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Suramin (Laubinger, W. (468) 9)

Renal vasculature

Cyclosporine; Testosterone; Endothelium dysfunction; Gonadectomy (El-Mas, M.M. (468) 217)

Rimcazole

Dopamine; GBR 12909 (Katz, J.L. (468) 109)

Risperidone

(Selected rat line); Alcohol preference; Food consumption; Locomotor activity (Ingman, K. (468) 121)

Salt

Hypertension; Endothelin; Kidney, rat; Genetic (Rothermund, L. (468) 209)

Scopolamine

Muscarinic receptor; Catalepsy; Extrapyramidal side effect; Haloperidol; Knockout mouse (Karasawa, H. (468) 15)

(Selected rat line)

Alcohol preference; Risperidone; Food consumption; Locomotor activity (Ingman, K. (468) 121)

Sephadex bead

Dexamethasone; Lung eosinophilia; ICAM-1 (intercellular adhesion molecule); TNF-α (tumor necrosis factor-α); VCAM-1 (vascular cell adhesion molecule) (Ito, A. (468) 59)

Soluble guanylyl cyclase

BAY 41-8543; BAY 58-2667; Kinetics; Heme; Nitric oxide (NO) (Schmidt, P. (468) 167)

Specific

Permeability transition pore; Binding site; Antioxidant property; Mitochondrion; Liver; (Rat) (Elimadi, A. (468) 93)

Spinal cord

Inflammatory hyperalgesia; NMDA receptor; Tyrosine kinase inhibitor; Antinociception (Sato, E. (468) 191)

StAR protein

Bromocriptine; Corticosterone; Zona fasciculata–reticularis cell; Adenylyl cyclase; Cytochrome P450scc (Kan, S.-F. (468) 141)

Striatum

Ammonia neurotoxicity; NMDA receptor; cGMP; Hydroxyl radical; Microdialysis; Taurine (Hilgier, W. (468) 21)

Substance P

Tachykinin NK₁ receptor; Neurokinin A; Peptide receptor antagonist; Hydropathy; Antibody (Wijkhuisen, A. (468) 175)

Suramin

Ca²⁺ mobilization; Diadenosine polyphosphate; Diinosine pentaphosphate; Evans blue; G protein-coupled receptor; MRS-2197; P2 receptor; PPADS; Reactive blue 2 (Laubinger, W. (468) 9)

Tachykinin NK₁ receptor

Substance P; Neurokinin A; Peptide receptor antagonist; Hydropathy; Antibody (Wijkhuisen, A. (468) 175)

Taurine

Ammonia neurotoxicity; NMDA receptor; cGMP; Hydroxyl radical; Microdialysis; Striatum (Hilgier, W. (468) 21)

Testosterone

Cyclosporine; Endothelium dysfunction; Renal vasculature; Gonadectomy (El-Mas, M.M. (468) 217)

Thromboxane

Isoprostane; Vasodilatation; Hypercholesterolemia; TP receptor (Ishizuka, T. (468) 27)

TNF- α (tumor necrosis factor- α)

Dexamethasone; Lung eosinophilia; ICAM-1 (intercellular adhesion molecule); Sephadex bead; VCAM-1 (vascular cell adhesion molecule) (Ito, A. (468) 59)

TP receptor

Isoprostane; Vasodilatation; Hypercholesterolemia; Thromboxane (Ishizuka, T. (468) 27)

Tuberoinfundibular peptide (TIP39)

PTH (Parathyroid hormone); PTH2 receptor; Proliferation; Luciferase gene-reporter assay; Bioluminescence assay (Misiano, P. (468) 159)

Tyrosine kinase inhibitor

Inflammatory hyperalgesia; NMDA receptor; Spinal cord; Antinociception (Sato, E. (468) 191)

Vasodilatation

Isoprostane; Hypercholesterolemia; TP receptor; Thromboxane (Ishizuka, T. (468) 27)

Vasopressin

CDP-choline; Choline; Cytidine; Haemorrhagic shock; Catecholamine (Savci, V. (468) 129)

Vasorelaxation

Caesalpinia sappan L.; Brazilin; Endothelial cell; Aorta; Nitric oxide (NO); Nitric oxide synthase (NOS); Ca²⁺ influx (Hu, C.M. (468) 37)

VCAM-1 (vascular cell adhesion molecule)

Dexamethasone; Lung eosinophilia; ICAM-1 (intercellular adhesion molecule); Sephadex bead; TNF- α (tumor necrosis factor- α) (Ito, A. (468) 59)

***Xenopus* oocyte**

Ginseng; Ginsenoside; Protein kinase C; K⁺ channel; G protein-coupled inwardly rectifying (Choi, S. (468) 83)

YM440

Glucose output, hepatic; Gluconeogenesis; Glucose-6-phosphatase; Fructose-1,6-bisphosphatase; Glucose, blood (Kurosaki, E. (468) 151)

Zona fasciculata–reticularis cell

Bromocriptine; Corticosterone; Adenylyl cyclase; Cytochrome P450scc; StAR protein (Kan, S.-F. (468) 141)