



**BIOCHEMICALS
NATURAL PRODUCTS
SMALL MOLECULES**

Inhibitors • Activators • Modulators

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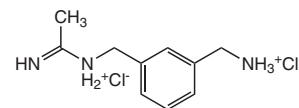
1400W . 2HCl

[N-(3-(Aminomethyl)benzyl)acetamidine . 2HCl]

AG-CR1-0018-M005	5 mg
AG-CR1-0018-M025	25 mg
AG-CR1-0018-M100	100 mg

Formula: C₁₀H₁₅N₃ . 2HCl **MW:** 177.3 . 73.0 **CAS:** 214358-33-5

- A slow, tight binding and highly selective inhibitor of iNOS (NOS II) • Inhibits tumor growth
- Improves contractile function • Anti-inflammatory

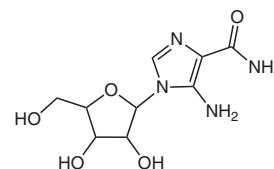

AICAR

[5-Aminoimidazole-4-carboxamide 1-β-D-ribofuranoside]

AG-CR1-0061-M010	10 mg
AG-CR1-0061-M050	50 mg

Formula: C₉H₁₄N₄O₅ **MW:** 258.2 **CAS:** 2627-69-2

- Cell permeable AMP-activated protein kinase (AMPK) activator • Insulin mimetic • Adipocyte differentiation inhibitor • Apoptosis inducer • PPARα inhibitor • mTOR inhibitor • P70S6K inhibitor
- LPS-induced TNF-α production inhibitor • TORC2 phosphorylation inducer • Anti-inflammatory
- Antitumor compound • Autophagy inhibitor • HSP90 inhibitor

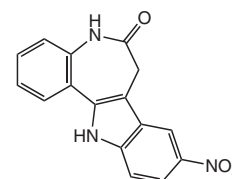

Alsterpauellone

[9-Nitro-7,12-dihydroindolo-[3,2-d][1]benzazepin-6(5H)-one]

AG-CR1-0036-M001	1 mg
AG-CR1-0036-M005	5 mg

Formula: C₁₆H₁₁N₃O₃ **MW:** 293.3 **CAS:** 237430-03-4

- Potent CDK1/cyclin B inhibitor • Antitumor compound • Potent inhibitor of CDK2/cyclin A, CDK2/cyclin E, CDK5/p25, CDK5/p35 • GSK-3β (glycogen synthase kinase-3β) inhibitor • Apoptosis inhibitor • Apoptosis inducer • Angiogenesis inhibitor

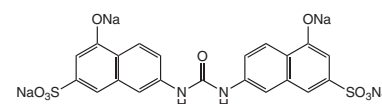

AMI-1

[Arginine N-methyltransferase inhibitor-1]

AG-CR1-0038-M005	5 mg
AG-CR1-0038-M025	25 mg

Formula: C₂₁H₁₂N₂O₉S₂Na₄ **MW:** 592.4

- Potent, cell permeable and specific protein arginine N-methyltransferase 1 (PRMT1) inhibitor
- Does not compete for the AdoMet (S-adenosyl-L-methionine; SAM) binding site • HIV-1 RT polymerase inhibitor

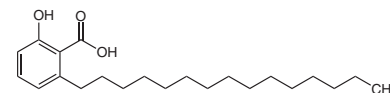

Anacardic acid

[2-Hydroxy-6-pentadecylbenzoic acid; AA]

AG-CR1-0046-M005	5 mg
AG-CR1-0046-M025	25 mg

Formula: C₂₂H₃₆O₃ **MW:** 348.5 **CAS:** 16611-84-0

- Potent histone acetyltransferase (HAT) inhibitor • Antibacterial • SUMOylation inhibitor • Lipoygenase inhibitor • NF-κB inhibitor • Antitumor compound • Anti-inflammatory • Apoptosis inducer • Antiproliferative


Anomalin A

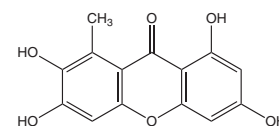
[2,3,6,8-Tetrahydroxy-1-methylxanthone]

AG-CN2-0006-M001	1 mg
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Formula: C₁₄H₁₀O₆ **MW:** 274.1 **CAS:** 548740-86-9

 Isolated from marine fungus *Arthrinium* sp.

- Lck (p56lck; lymphocyte specific tyrosine kinase) inhibitor • Antioxidant • DPPH radical scavenger

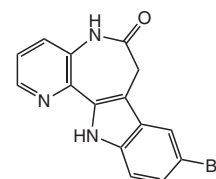

1-Azakenpauellone

[9-Bromo-7,12-dihydropyrido[3',2':2,3]azepino[4,5-b]indol-6(5H)-one]

AG-CR1-0035-M001	1 mg
AG-CR1-0035-M005	5 mg

Formula: C₁₅H₁₀BrN₃O **MW:** 328.2 **CAS:** 676596-65-9

- Potent and ATP-competitive GSK-3β (glycogen synthase kinase-3β) inhibitor

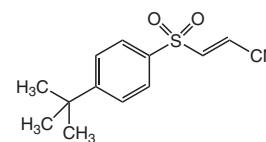


BAY 11-7082

[(E)-3-(4-Methylphenylsulfonyl)-2-propenenitrile]

AG-CR1-0013-M010 10 mg
AG-CR1-0013-M050 50 mg**Formula:** C₁₀H₉NO₂S **MW:** 207.3 **CAS:** 19542-67-7

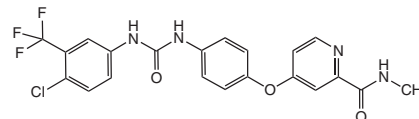
• IκBα kinase inhibitor • NF-κB inhibitor • Apoptosis inducer • Inhibits the release of proinflammatory cytokines • Inflammasome inhibitor • Platelet aggregation inhibitor

**BAY 43-9006**

[Sorafenib]

AG-CR1-0025-M001 1 mg
AG-CR1-0025-M005 5 mg
AG-CR1-0025-M025 25 mg**Formula:** C₂₁H₁₆ClF₃N₄O₃ **MW:** 464.8 **CAS:** 284461-73-0

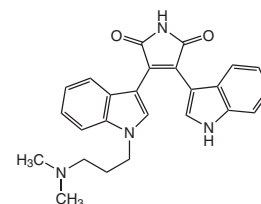
• Antitumor compound • Broad-spectrum kinase inhibitor • Raf kinase inhibitor • Apoptosis inducer • Cytostatic • Angiogenesis inhibitor

**Bisindolymaleimide I**

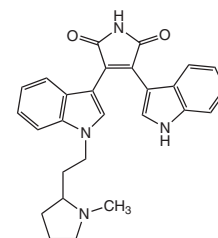
[GF-109203X; Gö 6850]

AG-CR1-0009-M001 1 mg
AG-CR1-0009-M005 5 mg**Formula:** C₂₅H₂₄N₄O₂ **MW:** 412.5 **CAS:** 133052-90-1

• Cell permeable kinase inhibitor with improved selectivity for protein kinase C (PKC) • Anti-inflammatory • Binds to P-glycoprotein • Telomerase activity inhibitor • Potent GSK-3 (glycogen synthase kinase-3) inhibitor • Inhibits necrosis

**Bisindolymaleimide II**AG-CR1-0010-M001 1 mg
AG-CR1-0010-M005 5 mg**Formula:** C₂₇H₂₆N₄O₂ **MW:** 438.5

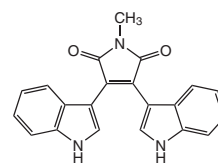
• Protein kinase C (PKC) inhibitor

**Bisindolymaleimide V**

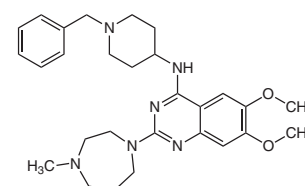
[Ro 31-6045]

AG-CR1-0023-M001 1 mg
AG-CR1-0023-M005 5 mg**Formula:** C₂₁H₁₅N₃O₂ **MW:** 341.4 **CAS:** 113963-68-1

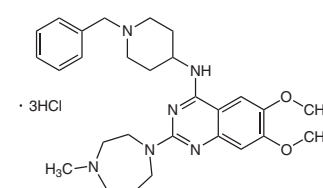
• Negative control for protein kinase C (PKC) inhibitors • S6K inhibitor • Necrosis inhibitor

**BIX 01294**AG-CR1-0051-M001 1 mg
AG-CR1-0051-M005 5 mg
AG-CR1-0051-M025 25 mg**Formula:** C₂₈H₃₈N₆O₂ **MW:** 490.6 **CAS:** 935693-62-2

• Selective and cell permeable G9a histone-lysine methyltransferase inhibitor (HMTase) • Does not compete with cofactor S-adenosylmethionine • Pluripotent stem cell inducer

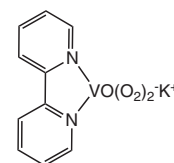
**BIX 01294 . 3HCl**AG-CR1-0150-M001 1 mg
AG-CR1-0150-M005 5 mg
AG-CR1-0150-M025 25 mg**Formula:** C₂₈H₃₈N₆O₂ . 3HCl **MW:** 490.6 . 190.4 **CAS:** 935693-62-2

• Selective and cell permeable G9a histone-lysine methyltransferase (HMTase) inhibitor • Does not compete with cofactor S-adenosylmethionine • Pluripotent stem cell inducer

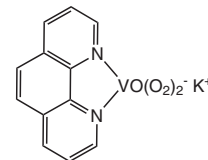


bpV(bipy) [Potassium bisperoxo (bipyridine) oxovanadate (V)]

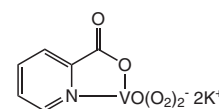
AG-CR1-0047-M001 1 mg
 AG-CR1-0047-M005 5 mg
Formula: $K[VO(O_2)_2C_{10}H_8N_2]$ **MW:** 326.2
 • Protein phosphotyrosine phosphatase inhibitor • Insulin mimetic


bpV(phen) [Potassium bisperoxo (1,10-phenanthroline) oxovanadate (V)]

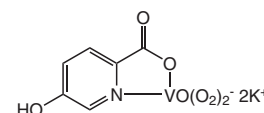
AG-CR1-0042-M005 5 mg
 AG-CR1-0042-M025 25 mg
Formula: $K[VO(O_2)_2C_{12}H_8N_2] \cdot 3H_2O$ **MW:** 350.2 . 54.0
 • Potent protein phosphotyrosine phosphatase inhibitor • Insulin receptor kinase (IRK) inducer
 • Insulin mimetic • Apoptosis inducer • ERK inducer • Mitogen-activated protein kinase phosphatase-1 (MKP-1) inducer • Angiogenesis inhibitor


bpV(pic) [Dipotassium bisperoxo (picolinato) oxovanadate (V)]

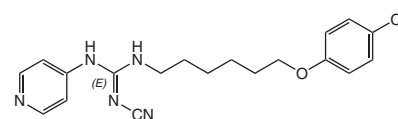
AG-CR1-0043-M005 5 mg
 AG-CR1-0043-M025 25 mg
Formula: $K_2[VO(O_2)_2C_6H_4NO_2] \cdot 2H_2O$ **MW:** 331.2 . 36.0
 • Protein phosphotyrosine phosphatase inhibitor • Insulin mimetic • PTEN inhibitor • Angiogenesis inhibitor


bpV(HOpic) [Dipotassium bisperoxo (5-hydroxypyridine-2-carboxyl) oxovanadate (V)]

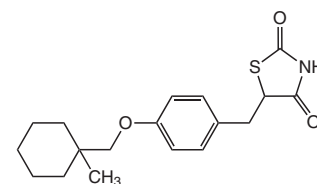
AG-CR1-0044-M005 5 mg
 AG-CR1-0044-M025 25 mg
Formula: $K_2[VO(O_2)_2C_6H_4NO_3]$ **MW:** 347.2
 • Protein phosphotyrosine phosphatase inhibitor • Insulin mimetic • PTEN inhibitor


CHS-828 [GMX1778; (E)-1-[6-(4-Chlorophenoxy)hexyl]-2-cyano-3-(pyridin-4-yl)guanidine]

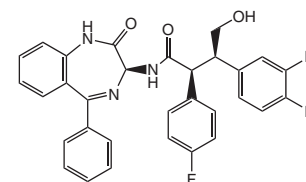
AG-CR1-0064-M005 5 mg
 AG-CR1-0064-M025 25 mg
Formula: $C_{19}H_{22}ClN_5O$ **MW:** 371.9 **CAS:** 200484-11-3
 • Antitumor compound • Programmed cell death inducer • Cytotoxic • p53 activator • Anti-proliferative • IκB kinase inhibitor • NF-κB inhibitor • Namp1/visfatin inhibitor


Ciglitazone [(±)-5-[4-(1-Methylcyclohexylmethoxy)benzyl]-thiazolidine-2,4-dione; U-63287]

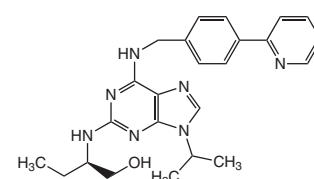
AG-CR1-0033-M001 1 mg
 AG-CR1-0033-M005 5 mg
 AG-CR1-0033-M025 25 mg
Formula: $C_{18}H_{23}NO_3S$ **MW:** 333.5 **CAS:** 74772-77-3
 • Selective PPAR γ agonist • Hypoglycemic agent • Angiogenesis inhibitor • Anti-inflammatory
 • Apoptosis inducer


Compound 34

AG-CR1-0007-C200 200 μg
 AG-CR1-0007-M001 1 mg
Formula: $C_{31}H_{24}F_3N_3O_3$ **MW:** 543.5
 • Cell permeable, highly potent inhibitor of γ -secretase

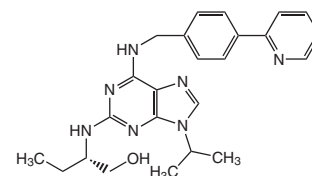

(R)-CR8 [2-(R)-(1-Ethyl-2-hydroxyethylamino)-6-(4-(2-pyridyl)benzyl)-9-isopropylpurine]

AG-CR1-0039-M001 1 mg
 AG-CR1-0039-M005 5 mg
Formula: $C_{24}H_{29}N_7O$ **MW:** 431.5 **CAS:** 294646-77-8
 • Potent and selective cyclin-dependent kinase (CDK) 1, 2, 5, 7 and 9 inhibitor • Apoptosis inducer
 • Potent GSK-3 α/β (glycogen synthase kinase-3 α/β) inhibitor

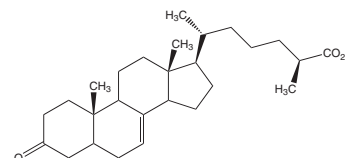


(S)-CR8 [2-(S)-(1-Ethyl-2-hydroxyethylamino)-6-(4-(2-pyridyl)benzyl)-9-isopropylpurine]AG-CR1-0040-M001 1 mg
AG-CR1-0040-M005 5 mg**Formula:** C₂₄H₂₉N₇O **MW:** 431.5 **CAS:** 294646-77-8

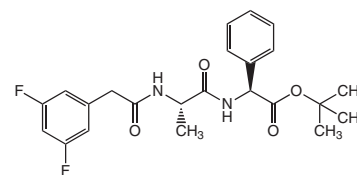
- Potent and selective cyclin-dependent kinase (CDK) 1, 2, 5, 7 and 9 inhibitor • Apoptosis inducer
- GSK-3 α / β (glycogen synthase kinase-3 α / β) inhibitor

**(25S)- Δ^7 -Dafachronic acid** [UPF-1404]AG-CN2-0014-C100 100 μ g**Formula:** C₂₇H₄₂O₃ **MW:** 414.6

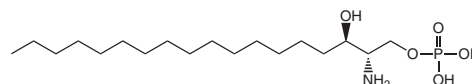
- Ligand of DAF-12 (orphan nuclear receptor) • Blocks formation of infective larvae • Regulates dauer diapause, reproductive development, fat metabolism and life span in parasitic nematodes

**DAPT** [N-[N-(3,5-Difluorophenacetyl-L-alanyl)]-S-phenylglycine t-butyl ester]AG-CR1-0016-M005 5 mg
AG-CR1-0016-M025 25 mg**Formula:** C₂₃H₂₆F₂N₂O₄ **MW:** 432.5 **CAS:** 208255-80-5

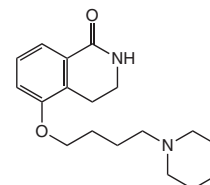
- Cell permeable γ -secretase inhibitor • Reduces A β levels *in vivo* • Blocks the proteolytic processing of neurotrophin receptor like death domain protein (NRADD) • Does not inhibit persenilase
- Notch processing inhibitor • Enhances neuronal differentiation independent of sonic hedgehog (shh) signaling • CDK5 activity inhibitor • Apoptosis enhancer

**D-erythro-Dihydro sphingosine 1-phosphate** [Dihydro-S1P; dhS1P]AG-CR1-0005-M001 1 mg
AG-CR1-0005-M005 5 mg**Formula:** C₁₈H₄₀NO₅P **MW:** 381.5

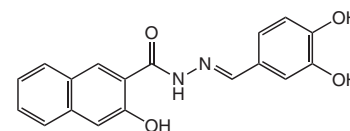
- Negative control for intracellular effects of sphingosine 1-phosphate • Ligand for sphingosine 1-phosphate (S1P/EDG) receptors • Induces chemotaxis • Antifibrotic

**DPQ** [3,4-Dihydro-5-[4-(1-piperidinyl)butoxy]-1(2H)-isoquinolinone]AG-CR1-0037-M001 1 mg
AG-CR1-0037-M005 5 mg**Formula:** C₁₈H₂₆N₂O₂ **MW:** 302.4 **CAS:** 129075-73-6

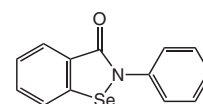
- Very potent PARP-1 inhibitor

**Dynasore** [3-Hydroxy-naphthalene-2-carboxylic acid (3,4-dihydroxy-benzylidene)-hydrazide]AG-CR1-0045-M005 5 mg
AG-CR1-0045-M025 25 mg**Formula:** C₁₈H₁₄N₂O₄ · H₂O **MW:** 322.3 · 18.0 **CAS:** 304448-55-3

- Dynamin GTPase inhibitor • Endocytosis inhibitor • Viral infection inhibitor • Destabilizes actin filaments

**Ebselen** [2-Phenyl-1,2-benzisoselenazol-3-(2H)-one]AG-CR1-0031-M001 1 mg
AG-CR1-0031-M005 5 mg
AG-CR1-0031-M025 25 mg**Formula:** C₁₃H₉NOSe **MW:** 274.2 **CAS:** 60940-34-3

- Glutathione peroxidase mimetic • Peroxynitrite scavenger • Anti-inflammatory • Antioxidant
- Protein kinase C (PKC), NADPH, lipoxygenase, COX, NOS, H⁺-ATPase and NADPH oxidase inhibitor
- Antifungal



6-ECDCA

[6 α -Ethyl-chenodeoxycholic acid; Obeticholic acid; INT-747]

AG-CR1-3560-M005

5 mg

AG-CR1-3560-M025

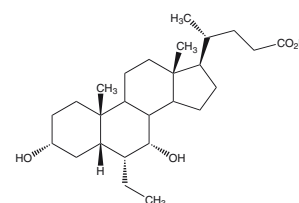
25 mg

Formula: C₂₆H₄₄O₄

MW: 420.3

CAS: 459789-99-2

• Potent and selective FXR agonist • Apoptosis inducer • Protects against liver fibrosis development in rat *in vivo* • Promotes preadipocyte differentiation • Regulates adipogenesis and insulin signaling *in vivo* • Anticholeretic in rat



Ferulenol

[2-Hydroxy-3-[(2E,6E)-3,7,11-trimethyldodeca-2,6,10-trienyl]chromen-4-one]

AG-CN2-0011-M001

1 mg

AG-CN2-0011-M005

5 mg

AG-CN2-0011-M010

10 mg

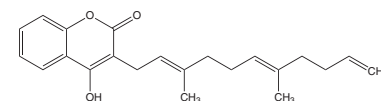
Formula: C₂₄H₃₀O₃

MW: 366.5

CAS: 6805-34-1

Isolated from *Ferula communis*.

• Antitumor compound • Cytotoxic • Stimulator of tubulin polymerisation *in vitro* • Antitubercular antibiotic with potent antibacterial activity • Anti-coagulant, pro-haemorrhagic compound with higher activity than warfarin • Shows hepatocyte toxicity • Disrupts mitochondrial membrane potential



Ferutinin (high purity)

[4-Oxy-6-(4-oxybenzoyloxy)dauc-8,9-en; Tefestrol]

AG-CN2-0007-M001

1 mg

AG-CN2-0007-M005

5 mg

AG-CN2-0007-M010

10 mg

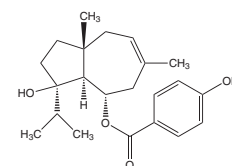
Formula: C₂₂H₃₀O₄

MW: 358.5

CAS: 41743-44-6

Semisynthetic.

• Strong agonist for estrogen receptor (ER) α and agonist/antagonist for ER β • Calcium ionophoretic • Apoptosis modulator • Antiproliferative • Increases NOS activity and phosphoinositides breakdown in nervous tissue • Anti-osteoporotic • Modest AChE inhibitor



FK-866

[K 22.175; APO866; WK175; N-[4-(1-Benzoyl-4-piperidinyl)butyl]-3-(3-pyridinyl)-2E-propenamide]

AG-CR1-0011-M001

1 mg

AG-CR1-0011-M005

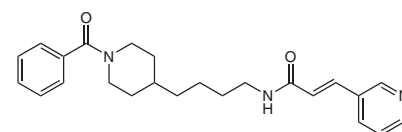
5 mg

Formula: C₂₄H₂₉N₃O₂

MW: 391.5

CAS: 658084-64-1

• Nampt/visfatin inhibitor • Inhibitor of NAD⁺ biosynthesis • Apoptosis inducer • Autophagy inducer • Causes premature senescence • Angiogenesis inhibitor



α -Galactosylceramide

[α -Gal-Cer; KRN7000]

AG-CN2-0013-C250

250 μ g

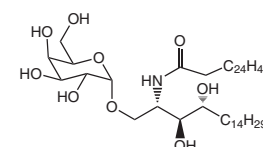
AG-CN2-0013-M001

1 mg

Formula: C₂₆H₄₄O₄

MW: 858.3

• Specific ligand of CD1d and potent stimulator of NKT cells • Potent antitumor compound • Immunostimulant • Protects against LPS-induced shock



H-8 . 2HCl

[N-[2-(Methylamino)ethyl]-5-isoquinolinesulfonamide . 2HCl]

AG-CR1-0001-M010

10 mg

AG-CR1-0001-M050

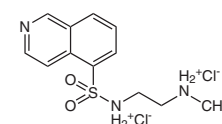
50 mg

Formula: C₁₂H₁₅N₃O₂S . 2HCl

MW: 265.3 . 73.0

CAS: 113276-94-1

• Potent cAMP- and cGMP-dependent protein kinase (PKA and PKG) inhibitor • Myosin light chain kinase (MLCK) inhibitor



H-89 . 2HCl

[N-[2-(p-Bromocinnamylamino)ethyl]-5-isoquinolinesulfonamide . 2HCl]

AG-CR1-0002-M001

1 mg

AG-CR1-0002-M005

5 mg

AG-CR1-0002-M025

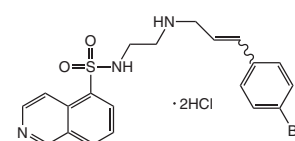
25 mg

Formula: C₂₀H₂₀BrN₃O₂S . 2HCl

MW: 446.4 . 73.0

CAS: 127243-85-0

• Cell permeable potent and selective cAMP- and cGMP-dependent protein kinase (PKA and PKG) inhibitor • Protein kinase C μ (PKC μ) inhibitor • Ca²⁺/calmodulin-dependent protein kinase II inhibitor • Casein kinase I inhibitor • Myosin light chain kinase (MLCK) inhibitor • Apoptosis enhancer • Rho kinase inhibitor • Cell proliferation inhibitor



Hydroxy α -sanshool

[(2E,6Z,8E,10E)-N-(2-Hydroxy-2-methylpropyl)dodeca-2,6,8,10-tetraenamide]

AG-CN2-0005-M001

1 mg

AG-CN2-0005-5001

5 x 1 mg

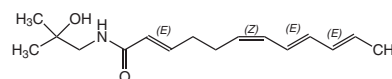
Formula: C₁₆H₂₅NO₂

MW: 263.4

CAS: 83883-10-7

Isolated from *Xanthoxylum* sp.

• TRPV1 and TRPA1 agonist • Inhibitor of the two-pore domain potassium channels KCNK3 (TASK-1), KCNK9 (TASK-3) and KCNK18 (TREK) • Modulator of the sensory neuron function • Tool for discriminating functional subtypes of Abeta and C fibre nerve afferents and identifying the cellular and molecular mechanisms of paresthesia



Hyperforin . DCHA

AG-CN2-0008-C500

500 μ g

AG-CN2-0008-M001

1 mg

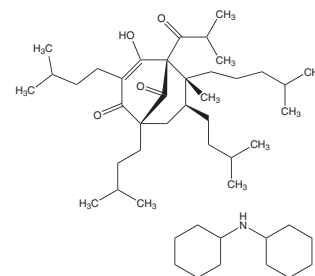
Formula: C₃₅H₅₁O₄ . C₁₂H₂₄N

MW: 535.8 . 182.3

CAS: 11079-53-1

Isolated from St. John's wort (*Hypericum perforatum*).

• Key constituent of St. John's wort • Anti-bacterial, anti-malarial, anti-inflammatory, anti-cancer and anti-angiogenic • Anti-depressant and anxiolytic compound • Specific activator of TRPC6 channels • Inhibits the re-uptake of neurotransmitters in synapses (serotonin, norepinephrine, dopamine, GABA, glutamate) • Activator of the pregnane X receptor (PXR) • Regulates expression of the cytochrome P450 CYP3A4 and CYP2C9 and hepatic drugs metabolism • Potential anti-Alzheimer compound • Potent SIRT1 (sirtuin 1) and SIRT2 (sirtuin 2) inhibitor



(-)-Indolactam V

AG-CR1-0041-C300

300 μ g

AG-CR1-0041-M001

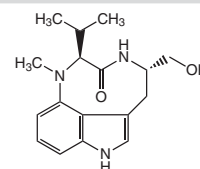
1 mg

Formula: C₁₇H₂₃N₃O₂

MW: 301.4

CAS: 90365-57-4

• Tumor promoter • Protein kinase C (PKC) inducer • Mitogenesis activator • Differentiation inducer



Ingenol-3-angelate

[PEP005; I3A]

AG-CN2-0012-M001

1 mg

AG-CN2-0012-M005

5 mg

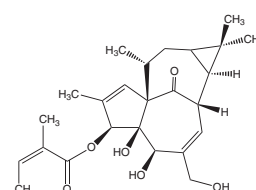
Formula: C₂₅H₃₄O₆

MW: 430.5

CAS: 75567-37-2

Isolated from *Euphorbia peplus* L.

• Specific protein kinase C (PKC) activator • Selective activator of PKC isoforms, like PKC θ in T cells • Antiproliferative • Proapoptotic (necrotic) • Immunostimulant • Chemotherapeutic • Anti-cancer compound • Antileukemic



1,5-Isoquinolinediol

[5-Hydroxy-1(2H)-isoquinolinone; 1,5-Dihydroxyisoquinoline]

AG-CR1-0024-M005

5 mg

AG-CR1-0024-M025

25 mg

AG-CR1-0024-M100

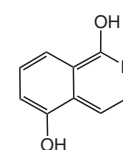
100 mg

Formula: C₉H₇NO₂

MW: 161.2

CAS: 5154-02-9

• PARP-1 inhibitor • Neuroprotectant • Blocks nitric oxide-induced neuronal toxicity • Potent iNOS (NOS II) inhibitor



Kdo2-Lipid A (ready-to-use)

[(3-Deoxy-D-manno-octulosonic acid)₂-Lipid A]

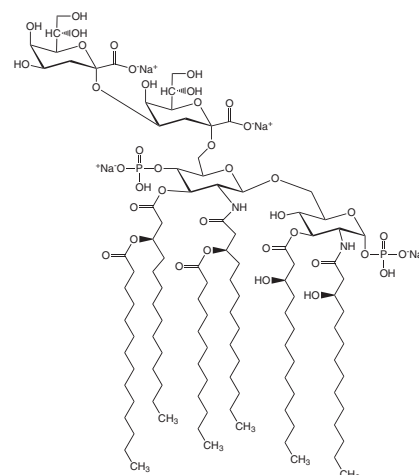
AG-CU1-0001-M001

1 mg

Formula: C₁₁₀H₁₉₈N₂Na₄O₃₉P₂

MW: 2326.7

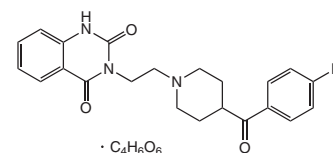
• Defined substructure of the Re mutant of lipopolysaccharide (LPS) • Endotoxin activity equal to Re LPS • Strong activator (<10ng/ml) of macrophages via toll-like receptor 4 (TLR4) • Does not activate TLR2 or other TLRs as determined with splenocytes and macrophages from TLR4 deficient mice by IL-6 ELISA • Facilitates the structural analysis of its complexes with signaling receptors, such as TLR4/MD2 and CD14 • Induces sphingolipid biosynthesis, which is essential for induction of autophagy



Ketanserin . tartrate [3-[2-[4-(4-Fluorobenzoyl)-1-piperidinyl]ethyl]-2,4(1*H*, 3*H*)-quinazolinedione tartrate]

AG-CR1-0014-M010 10 mg
 AG-CR1-0014-M050 50 mg
Formula: C₂₂H₂₂FN₃O₃ · C₄H₆O₆ **MW:** 395.4 . 150.1 **CAS:** 83846-83-7

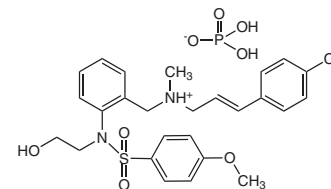
- Selective 5-HT_{2A} serotonin receptor antagonist • ATP-sensitive potassium channel inhibitor
- hERG potassium channel blocker



KN-93 (water soluble) [KN-93 . hydrogen phosphate]

AG-CR1-0065-M001 1 mg
 AG-CR1-0065-M005 5 mg
 AG-CR1-0065-M025 25 mg
Formula: C₂₆H₂₉ClN₂O₄S · H₃PO₄ **MW:** 501.0 . 98.0

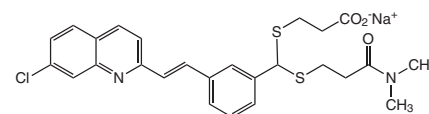
- Selective Ca²⁺/calmodulin-dependent protein kinase II inhibitor • Insulin release inhibitor • G1 cell cycle arrest inducer • Apoptosis inducer • Ion channel inhibitor • ROS inducer • Androgen receptor inhibitor



MK-571 . Na

AG-CR1-0021-M005 5 mg
 AG-CR1-0021-M025 25 mg
Formula: C₂₆H₂₆ClN₂O₃S₂ · Na **MW:** 514.1 . 23.0 **CAS:** 115104-28-4

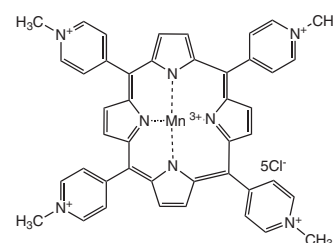
- Selective leukotriene LTD₄ receptor antagonist • Potent MRP1 inhibitor • Antinociceptive



MnTMPyP . pentachloride [Manganese (III) tetrakis (1-methyl-4-pyridyl)porphyrin . 5Cl⁻]

AG-CR1-0026-M010 10 mg
 AG-CR1-0026-M050 50 mg
Formula: C₄₄H₃₆Cl₅MnN₈ **MW:** 909.0

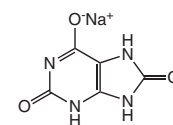
- Cell permeable superoxide dismutase (SOD) mimetic • Peroxynitrite scavenger • Displays a protective effect against H₂O₂ mediated injury • Neuroprotective • Oxidative stress inhibitor
- Apoptosis inhibitor • Reduces inflammation



Monosodium urate (crystals) & (ready-to-use) [MSU; Uric acid]

AG-CR1-3950-M002 2 mg (crystals)
 AG-CR1-3951-M010 10 mg (ready-to-use solution)
Formula: C₅H₃N₄O₃ · Na **MW:** 167.1 . 23.0 **CAS:** 1198-77-2

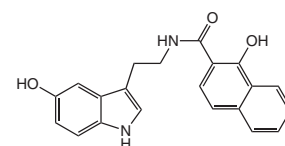
- NLRP3/NALP3 inflammasome stimulator • Activates IL-1β and IL-18



MS-1020 [1-Hydroxy-N-(2-(5-hydroxy-1*H*-indol-3-yl)ethyl)-2-naphtamide]

AG-CR1-3501-M001 1 mg
Formula: C₂₁H₁₈N₂O₃ **MW:** 346.4

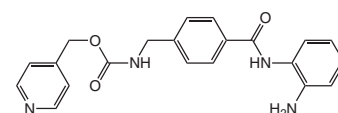
- Selective JAK3 inhibitor • Blocks STAT signaling • Inducer of apoptosis



MS-275 [MS-27-275; N-(2-Aminophenyl)-4-[N-(pyridine-3-ylmethoxy-carbonyl)aminomethyl]benzamide]

AG-CR1-0032-M001 1 mg
 AG-CR1-0032-M005 5 mg
 AG-CR1-0032-M025 25 mg
Formula: C₂₁H₂₀N₄O₃ **MW:** 376.4 **CAS:** 209783-80-2

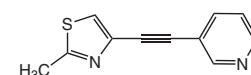
- HDAC 1 inhibitor • Antitumor compound • Antiproliferative • TGF-β type II receptor inducer
- Apoptosis inducer • Anti-inflammatory • Angiogenesis inhibitor



MTEP [3-[(2-Methyl-1,3-thiazol-4-yl)ethynyl]pyridine]

AG-CR1-0022-M005 5 mg
 AG-CR1-0022-M025 25 mg
Formula: C₁₁H₈N₂S **MW:** 200.3 **CAS:** 329205-68-7

- Potent and selective antagonist for mGluR5 • 5-fold higher anxiolytic activity than MPEP
- Antidepressant • Neuroprotective

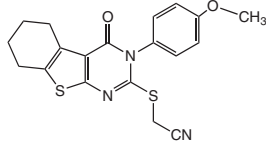


Necrostatin-5 [Nec-5]

AG-CR1-0049-M005 5 mg
 AG-CR1-0049-M025 25 mg

Formula: C₁₉H₁₇N₃O₂S₂ **MW:** 383.5 **CAS:** 337349-54-9

• Necroptosis inhibitor • Indirect RIP1 kinase inhibitor

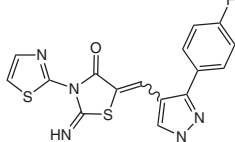


Necrostatin-7 [Nec-7]

AG-CR1-0054-M005 5 mg
 AG-CR1-0054-M025 25 mg

Formula: C₁₆H₁₀FN₃OS₂ **MW:** 371.4

• Necroptosis inhibitor • Does not inhibit RIP1 kinase

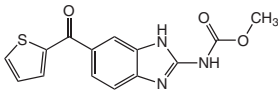


Nocodazole [R17934; Methyl[5-(2-thienylcarbonyl)-1H-benzimidazol-2-yl]carbamate]

AG-CR1-0019-M005 5 mg
 AG-CR1-0019-M010 10 mg
 AG-CR1-0019-M050 50 mg

Formula: C₁₄H₁₁N₃O₃S **MW:** 301.3 **CAS:** 31430-18-9

• Microtubule inhibitor • Antitumor compound • Mitosis inhibitor • Arrests the cell cycle at G2/M phase • Promotes tubulin depolymerization • Induces fragmentation of the Golgi complex • Inhibits the T cell antigen receptor • Stimulates the intrinsic GTPase activity of tubulin • Activates the JNK/SAPK signaling pathway • Apoptosis inducer

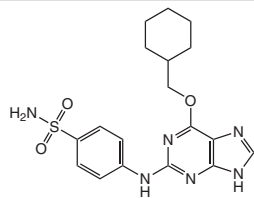


NU6102 [O⁶-Cyclohexylmethyl-2-(4-sulfamoylanilino)purine]

AG-CR1-0020-M001 1 mg
 AG-CR1-0020-M005 5 mg

Formula: C₁₈H₂₂N₆O₃S **MW:** 402.5 **CAS:** 31430-18-9

• Potent CDK1/cyclin B and CDK2/cyclin A3 inhibitor • 1'000-fold more potent than NU2058 • Inhibits cell growth

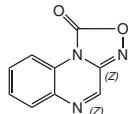


ODQ [1H-[1,2,4]Oxadiazole[4,3-a]quinoxalin-1-one]

AG-CR1-3500-M010 10 mg
 AG-CR1-3500-M050 50 mg

Formula: C₉H₅N₃O₂ **MW:** 187.2 **CAS:** 41443-28-1

• Potent and highly selective, irreversible inhibitor of soluble guanylyl cyclase (sGC). The binding is competitive with nitric oxide (NO) • Apoptosis inhibitor

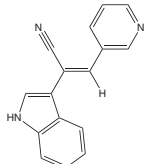


Paprotain [(Z)-α-(3-Pyridinylmethylene)-1H-indole-3-acetonitrile]

AG-CR1-3504-M001 1 mg

Formula: C₁₆H₁₁N₃ **MW:** 245.3 **CAS:** 57046-73-8

• Cell permeable kinesin-specific MKLP-2 (mitotic kinesin-like protein 2) inhibitor

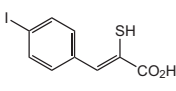


PD 150,606 [3-(4-Iodophenyl)-2-mercapto-(Z)-2-propenoic acid]

AG-CR1-0066-M005 5 mg
 AG-CR1-0066-M025 25 mg

Formula: C₉H₇IO₂S **MW:** 306.1 **CAS:** 179528-45-1

• Cell permeable and selective calpain inhibitor. Interacts with the calcium-binding domain of calpain • Neuroprotective • Ca²⁺-permeable AMPA receptor inhibitor • Apoptosis inhibitor

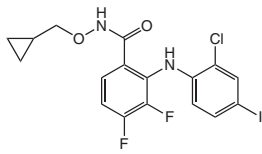


PD 184,352 [CI-1040; 2-(2-Chloro-4-iodo-phenylamino)-N-cyclopropylmethoxy-3,4-difluorobenzamide]

AG-CR1-0029-M001 1 mg
 AG-CR1-0029-M005 5 mg

Formula: C₁₇H₁₄ClF₂IN₂O₂ **MW:** 478.7 **CAS:** 212631-79-3

• MEK (MAPKK) inhibitor • Potent and selective MAPK (ERK kinase 1; MEK1) activation inhibitor • Antiproliferative • Causes cell-cycle arrest in G1 phase • Tumor suppressor • Apoptosis inducer

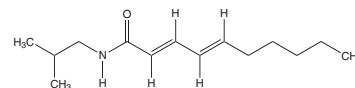


Pellitorine [2,4-Decadienamide; (E,E)-N-(2-Methylpropyl) 2,4-decadienamide]

 AG-CN2-0009-M001 1 mg
 AG-CN2-0009-M005 5 mg

Formula: C₁₄H₂₅NO **MW:** 223.4 **CAS:** 18836-52-7

- Shows larvicidal, antimycobacterial and antituberculosis activity
- Tingling-inducing agent
- Excellent stable model compound for sensory studies
- α-Glucosidase inhibitor
- ACAT (Acyl-CoA cholesteryl acyl transferase) inhibitor

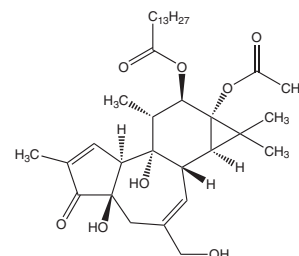

Phorbol 12-myristate 13-acetate [PMA; TPA; 12-O-Tetradecanoylphorbol 13-acetate]

 AG-CN2-0010-M001 1 mg
 AG-CN2-0010-M005 5 mg
 AG-CN2-0010-M010 10 mg
 AG-CN2-0010-M025 25 mg

Formula: C₃₆H₅₆O₈ **MW:** 616.8 **CAS:** 16561-29-8

Semisynthetic.

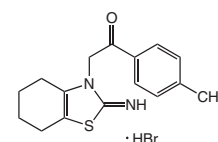
- Most commonly-used phorbol ester
- Binds to and activates protein kinase C (PKC) at nM concentrations
- Induces cell growth arrest through a variety of pathways including the mitogen-activated protein kinases (MAPKs), p38 and c-Jun N-terminal kinase (JNK) pathways
- Potent mouse skin tumor promoter
- Promoter of iNOS (NOS II)
- Apoptosis inducer
- Inhibitor of antipolytic activity of insulin


Pifithrin-α . HBr [1-(4-Methylphenyl)-2-(4,5,6,7-tetrahydro-2-imino-3(2H)-benzothiazolyl)ethanone . HBr]

 AG-CR1-0004-M005 5 mg
 AG-CR1-0004-M010 10 mg
 AG-CR1-0004-M025 25 mg

Formula: C₁₆H₁₈N₂O₅ . HBr **MW:** 286.4 . 80.9 **CAS:** 63208-82-2

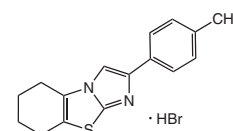
- p53 inhibitor
- Reversibly blocks p53-dependent transcriptional activation
- Apoptosis inhibitor


Pifithrin-α (cyclic) . HBr [2-(4-Methylphenyl)imidazo[2,1-b]-5,6,7,8-tetrahydrobenzothiazole . HBr]

 AG-CR1-0052-M005 5 mg
 AG-CR1-0052-M010 10 mg
 AG-CR1-0052-M050 50 mg

Formula: C₁₆H₁₆N₂S . HBr **MW:** 268.4 . 80.9 **CAS:** 60477-34-1

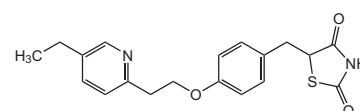
- Stable analog of pifithrin-α
- p53 inhibitor


Pioglitazone [5-[[4-[2-(5-Ethyl-2-pyridinyl)ethoxy]phenyl]methyl]-2,4-thiazolidinedione]

 AG-CR1-0067-M001 1 mg
 AG-CR1-0067-M005 5 mg
 AG-CR1-0067-M025 25 mg

Formula: C₁₉H₂₀N₂O₃S **MW:** 356.4 **CAS:** 111025-46-8

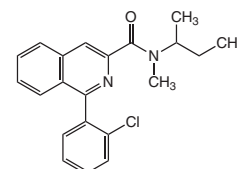
- Thiazolidinedione (TZD) reference compound
- Selective PPAR_γ agonist. Selectively activates PPAR_γ-1
- Anti-diabetic
- About one tenth as potent as rosiglitazone
- Lipid metabolism modulator
- Estrogen synthesis inhibitor
- NF-κB inhibitor
- Neuroprotective


PK 11195 [1-(2-Chlorophenyl)-N-methyl-N-(1-methylpropyl)-3-isoquinolinecarboxamide]

 AG-CR1-0008-M010 10 mg
 AG-CR1-0008-M050 50 mg

Formula: C₂₁H₂₁ClN₂O **MW:** 352.9 **CAS:** 85532-75-8

- Selective peripheral benzodiazepine antagonist
- Apoptosis enhancer
- Glucose-induced insulin secretion inhibitor
- Induces mitochondria cytochrome c release
- Anti-cancer compound
- Antiproliferative

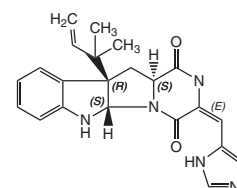

Roquefortine C [Nsc292134]

AG-CN2-0002-M001 1 mg

Formula: C₂₂H₂₃N₅O₂ **MW:** 389.5 **CAS:** 58735-64-1

 Isolated from fungus *Penicillium* sp.

- Tremorgenic
- Mycotoxin
- Potent neurotoxin
- Gram-positive bacteria growth inhibitor
- Cytochrome P450 inhibitor
- Cytotoxic



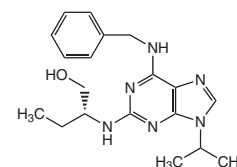
(R)-Roscovitine

[6-Benzylamino-2-(R)-[(1-ethyl)-2-hydroxyethylamino]-9-isopropylpurine]

AG-CR1-0006-M001	1 mg
AG-CR1-0006-M005	5 mg
AG-CR1-0006-M050	50 mg

Formula: C₁₉H₂₆N₆O **MW:** 354.5 **CAS:** 186692-46-6

• Potent and selective inhibitor of CDKs • More potent than olomoucine • Inhibits CDK1/cyclin B kinase, CDK2 and CDK5/p35 • Inhibits M phase promoting factor (MPF) kinase activity • Arrests human fibroblasts in G1 phase • Antitumor compound • Activates the mitogen-activated protein kinase pathway • Targets both the p53 and NF-κB pathways • Has effects on calcium channel gating • Prevents DNA damage-induced cyclin A1 upregulation • Apoptosis inducer • As CYC202 in phase I clinical trials

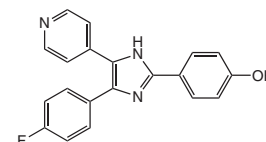
**SB202190**

[FHPI; 4-(4-Fluorophenyl)-2-(4-hydroxyphenyl)-5-(4-pyridyl)-1H-imidazole]

AG-CR1-0028-M001	1 mg
AG-CR1-0028-M005	5 mg
AG-CR1-0028-M025	25 mg

Formula: C₂₀H₁₄FN₃O **MW:** 331.3 **CAS:** 152121-30-7

• Potent and cell permeable p38 MAP kinase inhibitor • Apoptosis inducer • Inhibits p38α and β, but not γ and δ isoforms • JNK activator

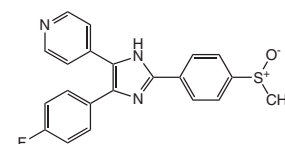
**SB203580**

[4-(4-Fluorophenyl)-2-(4-methylsulfinylphenyl)-5-(4-pyridyl)1H-imidazole]

AG-CR1-0030-M001	1 mg
AG-CR1-0030-M005	5 mg
AG-CR1-0030-M025	25 mg

Formula: C₂₁H₁₆FN₃OS **MW:** 377.4 **CAS:** 152121-47-6

• Cell permeable, specific p38 MAP kinase inhibitor • Binds to the ATP binding site of p38 MAP kinase • T cell proliferation inhibitor • IL-2 production inhibitor • SAPK/JNK inhibitor • COX-1 and -2 inhibitor • Raf-1 activator • Apoptosis enhancer • Antiproliferative • PDK1 inhibitor • Anti-inflammatory

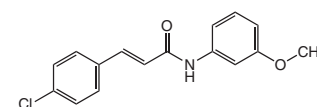
**SB366791**

[N-(3-Methoxyphenyl)-4-chlorocinnamide]

AG-CR1-0034-M005	5 mg
AG-CR1-0034-M025	25 mg

Formula: C₁₆H₁₄ClNO₂ **MW:** 287.8 **CAS:** 472981-92-3

• Potent and selective TRPV1 antagonist

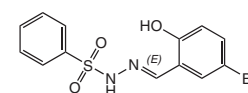
**Shz-1**

[2-[(5-Bromo-2-hydroxyphenyl)methylene]hydrazide benzenesulfonic acid]

AG-CR1-3502-M001	1 mg
AG-CR1-3502-M005	5 mg

Formula: C₁₃H₁₁BrN₂O₃S **MW:** 355.2 **CAS:** 326886-05-9

• Enhancer of myocardial regenerative repair by stem cells • Potent inducer of Nkx2.5 and a subset of other cardiac markers, including myocardin and sarcomeric-tropomyosin (SαTM) in a variety of different stem/progenitor cells

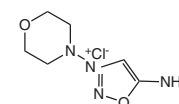
**SIN-1 chloride**

[3-Morpholinosydnonimine; Linsidomine]

AG-CR1-0027-M010	10 mg
AG-CR1-0027-M050	50 mg

Formula: C₆H₁₁ClN₄O₂ **MW:** 206.6 **CAS:** 16142-27-1

• Nitric oxide (NO) donor • Generates both superoxide anion and nitric oxide that spontaneously form peroxynitrite • Platelet aggregation inhibitor • Guanylyl cyclase activator • Cytotoxic • Positive inotropic • Vasodilator

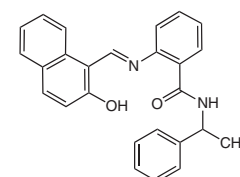
**Sirtinol**

[Sir Two Inhibitor Naphthol; 2-[(2-Hydroxynaphthalen-1-yl-methylene)amino]-N-(1-phenethyl)benzamide]

AG-CR1-0055-M001	1 mg
AG-CR1-0055-M005	5 mg
AG-CR1-0055-M025	25 mg

Formula: C₂₆H₂₂N₂O₂ **MW:** 394.5 **CAS:** 410536-97-9

• Specific cell permeable SIRT1 (sirtuin 1) inhibitor • Platelet aggregation inhibitor • Apoptosis inducer



Skyrin

[Rhodophyscin; Endothianin]

AG-CN2-0001-M001

1 mg

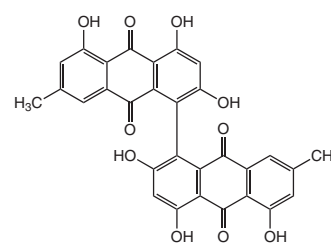
Formula: C₃₀H₁₈O₁₀

MW: 538.5

CAS: 602-06-2

Isolated from fungus *Talaromyces* sp.

• Non-peptidic anti-diabetic agent • Receptor-selective glucagon antagonist • Free radical species and singlet oxygen scavenger • Mycotoxin • Cytotoxic • Antioxidant

**SMI-4a**

[(5E/Z)-[[3-(Trifluoromethyl)phenyl]methylene]-2,4-thiazolidinedione]

AG-CR1-3503-M005

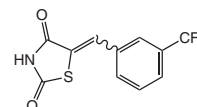
5 mg

Formula: C₁₁H₆F₃NO₂S

MW: 273.2

CAS: 327033-36-3

• Selective inhibitor of Pim-1 and Pim-2 protein kinases • Inducer of G1 phase cell cycle arrest • Inducer of p27Kip1 • Inducer of apoptosis • Inhibitor of the mammalian target of rapamycin C1 (mTORC1) pathway • Downregulates c-myc

**SNC80**

[(+)-4-[(αR)-α-((2S,5R)-4-Allyl-2,5-dimethyl-1-piperazinyl)-3-methoxybenzyl]-N,N-diethylbenzamide]

AG-CR1-0017-M005

5 mg

AG-CR1-0017-M025

25 mg

AG-CR1-0017-M100

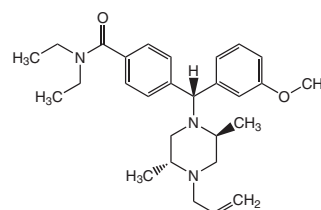
100 mg

Formula: C₂₈H₃₉N₃O₂

MW: 449.6

CAS: 156727-74-1

• Highly selective and potent non-peptide δ-opioid receptor agonist • Mediates downregulation of the δ-opioid receptor • Shows antidepressant-like effects • Modulates voltage-dependent sodium channels • Antinociceptive • Activates ATP-sensitive K⁺ channels • Enhances amphetamine-mediated dopamine efflux

**Thapsigargin**

AG-CN2-0003-M001

1 mg

AG-CN2-0003-M005

5 mg

AG-CN2-0003-M010

10 mg

AG-CN2-0003-M025

25 mg

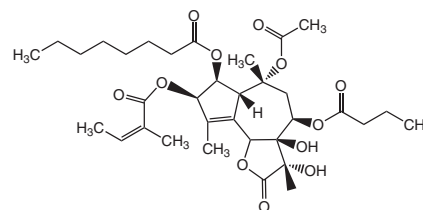
Formula: C₃₄H₅₀O₁₂

MW: 650.8

CAS: 67526-95-8

Isolated from *Thapsia garganica*.

• Intracellular Ca²⁺ signaling probe • Specific and sensitive inhibitor of SERCA • Non-TPA/PMA tumor promoter • Histamine release inducer • Apoptosis inducer • NOS modulator • Angiogenesis inhibitor • Autophagy inducer

**W-5 . HCl**

[N-(6-Aminoethyl)-1-naphthalenesulfonamide . HCl]

AG-CR1-0003-M005

5 mg

AG-CR1-0003-M025

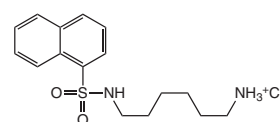
25 mg

Formula: C₁₆H₂₂N₂O₂S . HCl

MW: 306.4 . 36.5

CAS: 61714-25-8

• Calmodulin antagonist • Cell proliferation inhibitor • Ca²⁺/calmodulin-regulated phosphodiesterase (PDE I) inhibitor • Myosin light chain kinase (MLCK) inhibitor

**Zerumbone**

[(2E,6E,10E)-2,6,9,9-Tetramethylcycloundeca-2,6,10-trien-1-one]

AG-CN2-0004-M010

10 mg

AG-CN2-0004-M050

50 mg

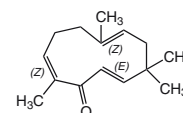
Formula: C₁₅H₂₂O

MW: 218.3

CAS: 471-05-6

Isolated from the underground parts of *Curcuma zerumbet*.

• Chemopreventive probe • Apoptosis inducer • Potent antitumor compound • Anti-inflammatory • Antinociceptive • Probe to study chemokine receptors functioning



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