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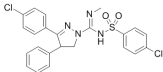
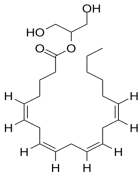
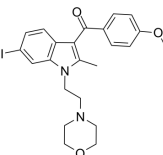
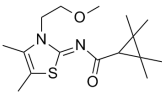
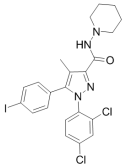
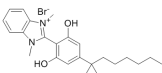
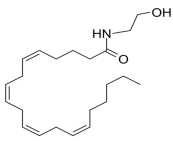
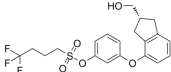
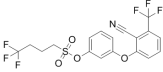
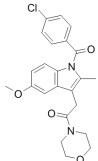
Inhibitors, Agonists, Screening Libraries

Cannabinoid Receptor

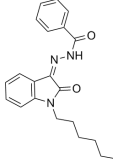
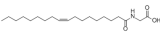
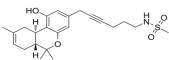
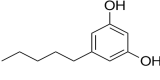
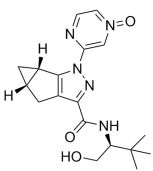

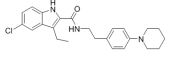
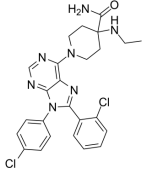
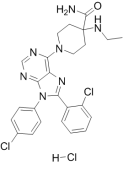
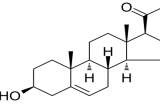
Cannabinoid Receptor

Cannabinoid receptors are currently classified into three groups: central (CB1), peripheral (CB2) and GPR55, all of which are G-protein-coupled. CB1 receptors are primarily located at central and peripheral nerve terminals. CB2 receptors are predominantly expressed in non-neuronal tissues, particularly immune cells, where they modulate cytokine release and cell migration. Recent reports have suggested that CB2 receptors may also be expressed in the CNS. GPR55 receptors are non-CB1/CB2 receptors that exhibit affinity for endogenous, plant and synthetic cannabinoids. Endogenous ligands for cannabinoid receptors have been discovered, including anandamide and 2-arachidonylglycerol.

Cannabinoid Receptor Agonists, Antagonists, Inhibitors, Activators & Modulators

<p>(±)-Ibipinabant (±)-SLV319; (±)-BMS6462</p> <p>Cat. No.: HY-14791A</p> <p>(±)-Ibipinabant ((±)-SLV319) is the racemate of SLV319. (±)-Ibipinabant ((±)-SLV319) is a potent and selective cannabinoid-1 (CB₁) receptor antagonist with an IC₅₀ of 22 nM.</p>  <p>Purity: 99.93% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg</p>	<p>2-Arachidonoylglycerol</p> <p>Cat. No.: HY-W011051</p> <p>2-Arachidonoylglycerol is a second endogenous cannabinoid ligand in the central nervous system.</p>  <p>Purity: >99.0% Clinical Data: No Development Reported Size: 1 mg (26.4 mM * 100 µL in Acetonitrile),</p>
<p>6-Iodopravadoline (AM630)</p> <p>Cat. No.: HY-15421</p> <p>6-Iodopravadoline (AM630) is a selective CB₂ antagonist with K_i of 31.2 nM, and displays 165-fold selectivity over CB₁ receptors.</p>  <p>Purity: 99.35% Clinical Data: No Development Reported Size: 10 mg, 50 mg, 100 mg</p>	<p>A-836339</p> <p>Cat. No.: HY-12761</p> <p>A-836339 is a cannabinoid CB₂ receptor-selective agonist; exhibits high potencies at CB₂ and selectivity over CB₁ receptors.</p>  <p>Purity: 99.61% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg</p>
<p>AM251</p> <p>Cat. No.: HY-15443</p> <p>AM251 is a selective cannabinoid 1 (CB₁) receptor antagonist with an IC₅₀ of 8 nM, also acts as a potent GPR55 agonist with an EC₅₀ of 39 nM.</p>  <p>Purity: 99.92% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>AM9405</p> <p>Cat. No.: HY-112707</p> <p>AM9405 is a novel peripherally active cannabinoid type 1 (CB₁) and serotonin type 3 receptor agonist. AM9405 inhibits twitch contraction of the ileum and the colon with IC₅₀s of 45.71 and 0.076 nM, respectively.</p>  <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>Anandamide</p> <p>Cat. No.: HY-10863</p> <p>Anandamide is an immune modulator in the central nervous system acts via not only cannabinoid receptors (CB₁ and CB₂) but also other targets (e.g., GPR18/GPR55).</p>  <p>Purity: >99.0% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>	<p>BAY 38-7271</p> <p>Cat. No.: HY-119744</p> <p>BAY 38-7271 is selective and highly potent and cannabinoid CB₁/CB₂ receptor agonist, with K_is of 1.85 nM and 5.96 nM for recombinant human CB₁ receptor and CB₂ receptor, respectively. BAY 38-7271 has strong neuroprotective properties.</p>  <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>Bay 59-3074</p> <p>Cat. No.: HY-100488</p> <p>Bay 59-3074 is a selective cannabinoid CB₁/CB₂ receptor partial agonist with K_i values of 48.3 and 45.5 nM at human CB₁ and CB₂ receptors, respectively. Bay 59-3074 has analgesic properties.</p>  <p>Purity: 98.85% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	<p>BML-190 (Indomethacin morpholinylamide; IMMA)</p> <p>Cat. No.: HY-15420</p> <p>BML-190(IMMA) is a potent and selective CB₂ receptor ligand (K_i values are 435 nM and > 2 µM for CB₂ and CB₁ respectively).</p>  <p>Purity: 99.34% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg, 500 mg</p>

<p>CB1 antagonist 1</p> <p>Cat. No.: HY-U00397</p> <p>CB1 antagonist 1 is an antagonist of CB1 receptor, used in the research of metabolic syndrome and obesity, neuroinflammatory disorders, cognitive disorders and psychosis, gastrointestinal disorders, and cardiovascular conditions.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>	<p>CB1 antagonist 2</p> <p>Cat. No.: HY-116649</p> <p>CB1 antagonist 2 is caimabinoid 1 (CB1) antagonist extracted from patent WO2016184310A1, compound 3, inhibits CB1 in vivo with an IC_{50} of 25.5 nM.</p> <p>Purity: 99.84% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>CB1 inverse agonist 1</p> <p>Cat. No.: HY-135280</p> <p>CB1 inverse agonist 1 is a highly potent, orally active, and specific inverse agonist of CB1 receptor with IC_{50}s of 7.5 nM and 4100 nM for CB1 and CB2 receptors, respectively. Anorexigenic effects.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>	<p>CB1-IN-1 (BPRCB1184)</p> <p>Cat. No.: HY-12790</p> <p>CB1-IN-1 (BPRCB1184) is a peripherally restricted CB1R antagonist, with K_i of 0.3 nM and 21 nM for CB1R (EC_{50} = 3 nM) and CB2R, respectively.</p> <p>Purity: 99.77% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>CB2 modulator 1</p> <p>Cat. No.: HY-135419</p> <p>CB2 modulator 1 (compound 130) is a potent CB2 modulator. CB2 modulator 1 has the potential for immunedisorders, inflammation, osteoporosis, renal ischemia.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>	<p>CB2R-IN-1</p> <p>Cat. No.: HY-100328</p> <p>CB2R-IN-1 is a potent cannabinoid CB₂ receptor inverse agonist with a K_i of 0.9 nM.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>GW842166X</p> <p>Cat. No.: HY-14167</p> <p>GW842166X is a potent and selective cannabinoid receptor 2 (CB₂) agonist with IC_{50} values of 63 and 91 nM for human and rat CB₂, respectively.</p> <p>Purity: 99.97% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 2 mg, 5 mg, 10 mg, 25 mg</p>	<p>JD-5037</p> <p>Cat. No.: HY-18697</p> <p>JD-5037 is a novel, peripherally restricted CB₁R antagonist with an IC_{50} of 1.5 nM.</p> <p>Purity: 98.77% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>Leelamine hydrochloride</p> <p>Cat. No.: HY-110028</p> <p>Leelamine hydrochloride is a tricyclic diterpene molecule that is extracted from the bark of pine trees.</p> <p>Purity: >98% Clinical Data: Size: 1 mg, 5 mg</p>	<p>LY2828360</p> <p>Cat. No.: HY-16642A</p> <p>LY2828360 is a slowly acting but efficacious G protein-biased cannabinoid (CB₂) agonist, inhibiting cAMP accumulation and activating ERK1/2 signaling.</p> <p>Purity: 98.99% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>

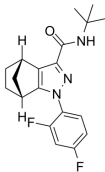
<p>MDA 19</p> <p style="text-align: right;">Cat. No.: HY-15451</p>	<p>N-Oleoyl glycine</p> <p style="text-align: right;">Cat. No.: HY-113204</p>
<p>MDA 19 is a selective human CB2 receptor agonist with K_i of 43.3 nM.</p> <p style="text-align: center;"></p> <p>Purity: 99.56% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg</p>	<p>N-Oleoyl glycine is a lipoamino acid, which stimulates adipogenesis associated with activation of CB1 receptor and Akt signaling pathway in 3T3-L1 adipocyte.</p> <p style="text-align: center;"></p> <p>Purity: >99.0% Clinical Data: Size: 10 mM × 1 mL, 10 mg</p>
<p>O-2050</p> <p style="text-align: right;">Cat. No.: HY-133533</p>	<p>Olivetol</p> <p style="text-align: right;">Cat. No.: HY-W008364</p>
<p>O-2050 is a high affinity cannabinoid CB₂ receptor silent antagonist. O-2050 also acts as a partial agonist in inhibiting forskolin-induced cyclic AMP stimulation (EC_{50}=40.4 nM). O-2050 antagonizes effects of CP-55940 in vitro.</p> <p style="text-align: center;"></p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>	<p>Olivetol is a naturally phenol found in lichens and produced by certain insects, acting as a competitive inhibitor of the cannabinoid receptors CB1 and CB2. Olivetol also inhibits CYP2C19 and CYP2D6 activity, with IC_{50}s of 15.3 μM, 7.21 μM and K_S of 2.71 μM, 2.87 μM, respectively.</p> <p style="text-align: center;"></p> <p>Purity: 99.81% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 100 mg</p>
<p>Olorinab (APD 371)</p> <p style="text-align: right;">Cat. No.: HY-111110</p>	<p>OMDM-6</p> <p style="text-align: right;">Cat. No.: HY-135882</p>
<p>Olorinab (APD 371) is a highly potent, selective and fully efficacious cannabinoid receptor type 2 (CB₂) agonist, with an EC_{50} of 6.2 nM for hCB₂.</p> <p style="text-align: center;"></p> <p>Purity: >99.0% Clinical Data: No Development Reported Size: 5 mg, 10 mg</p>	<p>OMDM-6 is a hybrid agonist of vanilloid receptor type 1 (VR1, TRPV1) (EC_{50}=75 nM) and cannabinoid receptor type 1 (CB1) (K_i=3.2 μM). OMDM-6 inhibits anandamide cellular uptake (ACU) with a K_i of 7.0 μM.</p> <p style="text-align: center;"></p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>Org 27569</p> <p style="text-align: right;">Cat. No.: HY-13288</p>	<p>Otenabant (CP-945598)</p> <p style="text-align: right;">Cat. No.: HY-10871</p>
<p>Org 27569 is a potent CB1 receptor allosteric modulator, which increases agonist binding, yet blocks agonist-induced CB1 signaling.</p> <p style="text-align: center;"></p> <p>Purity: 99.74% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 10 mg, 50 mg</p>	<p>Otenabant is a potent and selective cannabinoid receptor CB1 antagonist with K_i of 0.7 nM, exhibits 10,000-fold greater selectivity against human CB2 receptor.</p> <p style="text-align: center;"></p> <p>Purity: 99.65% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg</p>
<p>Otenabant Hydrochloride (CP 945598 Hydrochloride)</p> <p style="text-align: right;">Cat. No.: HY-10871A</p>	<p>Pregnenolone (3β-Hydroxy-5-pregnen-20-one)</p> <p style="text-align: right;">Cat. No.: HY-B0151</p>
<p>Otenabant Hydrochloride is a potent and selective cannabinoid receptor CB1 antagonist with K_i of 0.7 nM, exhibits 10,000-fold greater selectivity against human CB2 receptor.</p> <p style="text-align: center;"></p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>	<p>Pregnenolone (3β-Hydroxy-5-pregnen-20-one) is a powerful neurosteroid, the main precursor of various steroid hormones including steroid ketones.</p> <p style="text-align: center;"></p> <p>Purity: >98.0% Clinical Data: Launched Size: 10 mM × 1 mL, 500 mg, 1 g, 5 g</p>

<p>Pregnenolone monosulfate (3β-Hydroxy-5-pregnen-20-one monosulfate)</p> <p>Pregnenolone monosulfate (3β-Hydroxy-5-pregnen-20-one monosulfate) is a powerful neurosteroid, the main precursor of various steroid hormones including steroid ketones.</p> <p>Purity: >98.0% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg</p>	<p>Pregnenolone monosulfate sodium salt (3β-Hydroxy-5-pregnen-20-one monosulfate sodium salt)</p> <p>Pregnenolone monosulfate sodium salt (3β-Hydroxy-5-pregnen-20-one monosulfate sodium salt) is a powerful neurosteroid, the main precursor of various steroid hormones including steroid ketones.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>Rimonabant (SR141716)</p> <p>Rimonabant (SR141716) is a highly potent, brain penetrated and selective central cannabinoid receptor (CB1) antagonist with a K_i of 1.8 nM. Rimonabant (SR141716) also inhibits Mycobacterial membrane protein Large 3 (MMPL3).</p> <p>Purity: >98% Clinical Data: Phase 4 Size: 1 mg, 5 mg</p>	<p>Rimonabant Hydrochloride (SR 141716A Hydrochloride)</p> <p>Rimonabant hHydrochloride (SR 141716A Hydrochloride) is a highly potent and selective central cannabinoid receptor (CB1) antagonist with an K_i of 1.8 nM.</p> <p>Purity: 99.79% Clinical Data: Launched Size: 10 mM \times 1 mL, 10 mg, 50 mg, 100 mg</p>
<p>RVD-Hpα</p> <p>RVD-Hpα is the N-terminally extended form of human hemopressin that acts as a selective CB1 receptor agonist. RVD-Hpα increases intracellular Ca²⁺ levels in cells expressing CB1 receptors in vitro. RVD-Hpα also high affinity CB2 positive allosteric modulator (K_i=50 nM).</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>	<p>RVD-Hpα TFA</p> <p>RVD-Hpα TFA is the N-terminally extended form of human hemopressin that acts as a selective CB1 receptor agonist. RVD-Hpα TFA increases intracellular Ca²⁺ levels in cells expressing CB1 receptors in vitro. RVD-Hpα TFA also high affinity CB2 positive allosteric modulator (K_i=50 nM).</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>
<p>SR144528</p> <p>SR144528 is a potent and selective CB2 receptor antagonist with a K_i of 0.6 nM.</p> <p>Purity: 99.61% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	<p>Taranabant (MK-0364)</p> <p>Taranabant is a highly potent and selective cannabinoid 1 (CB1) receptor inverse agonist that inhibits the binding and functional activity of various agonists, with a binding K_i of 0.13 nM for the human CB1R in vitro.</p> <p>Purity: 99.28% Clinical Data: Phase 3 Size: 10 mM \times 1 mL, 2 mg, 5 mg, 10 mg, 25 mg</p>
<p>Taranabant ((1R,2R)stereoisomer) (MK0364 (1R,2R)stereoisomer)</p> <p>Taranabant (1R,2R)stereoisomer is the R-enantiomer of Taranabant. Taranabant is a highly potent and selective cannabinoid 1 (CB1) receptor inverse agonist.</p> <p>Purity: 98.15% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 2 mg, 5 mg, 10 mg</p>	<p>Taranabant racemate (MK-0364 racemate)</p> <p>Taranabant racemate is an antagonist and/or inverse agonist of the Cannabinoid-1 (CB1) receptor extracted from patent WO 2004048317 A1.</p> <p>Purity: 99.74% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>

Tedalinab
(GRC-10693) Cat. No.: HY-14900

Tedalinab (GRC-10693) is a potent, orally active, and selective cannabinoid receptor 2 (CB₂) agonist. Tedalinab has >4700-fold functional selectivity for CB₂ over CB₁. Tedalinab has potential for neuropathic pain and osteoarthritis treatment.

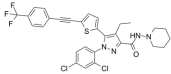
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg



TM38837 Cat. No.: HY-112340

TM38837 is a peripheral selective cannabinoid receptor type 1 (CB₁) receptor antagonist. TM38837 shows limited penetrance to the brain in order to minimize or prevent CNS adverse reactions, and preserves potential antiobesity effects.

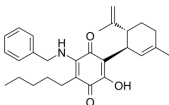
Purity: 99.61%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg



VCE-004.8 Cat. No.: HY-128872

VCE-004.8, a semi-synthetic multitarget cannabinoquinoid, is a specific PPAR γ and CB₂ receptor dual agonist with potent anti-inflammatory activity. VCE-004.8 inhibits prolyl-hydroxylases (PHDs) and activates the HIF pathway.

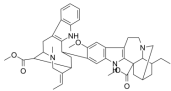
Purity: 98.56%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg



Voacamine Cat. No.: HY-N6932

Voacamine, an indole alkaloid, isolated from Voacanga Africana, exhibits potent cannabinoid CB₁ receptor antagonistic activity. Voacamine also inhibits P-glycoprotein (P-gp) action in multidrug-resistant tumor cells.

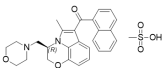
Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg



WIN 55,212-2 Mesylate
(R)-(+)-WIN 55212 Cat. No.: HY-13291

WIN 55,212-2 Mesylate is a potent aminoalkylindole cannabinoid (CB) receptor agonist with K_s of 62.3 and 3.3 nM for human recombinant CB₁ and CB₂ receptors, respectively.

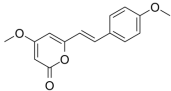
Purity: 99.01%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg



Yanгонin Cat. No.: HY-N0919

Yanгонin exhibits affinity for the human recombinant cannabinoid CB₁ receptor with an IC₅₀ and a K_i of 1.79 ± 0.53 μM and 0.72 ± 0.21 μM, respectively.

Purity: 99.72%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg



β-Caryophyllene ((-)-(E)-Caryophyllene; (-)-β-caryophyllene; (-)-trans-Caryophyllene) Cat. No.: HY-N1415

β-Caryophyllene is a CB₂ receptor agonist.

Purity: >94.0%
Clinical Data: No Development Reported
Size: 500 mg

