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Inhibitors, Agonists, Screening Libraries

FXR

FXR; NR1H4

Farnesoid X receptor (FXR) is a nuclear hormone receptor critically involved in the regulation of bile acid homeostasis. It is now recognized that bile acids serve as the natural ligands for FXR. Once activated, FXR in turn induces the expression of another nuclear hormone receptor, small heterodimer partner (SHP).

FXR, which is highly expressed in the liver, intestine, kidney, adrenal glands, and adipose tissue, is a master regulator of the synthesis and pleiotropic actions of endogenous bile acids (BAs).

FXR activation inhibits BA synthesis and has anti-inflammatory effects in atherosclerosis, inflammatory bowel disease, and experimental cholestasis, whereas TGR5 activation, via cAMP-mediated pathways, reduces proinflammatory cytokine production in macrophages and Kupffer cells.

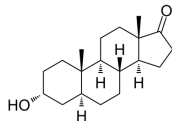
FXR Inhibitors, Agonists, Antagonists & Activators

Androsterone

(5 α -Androstan-3 α -ol-17-one)

Cat. No.: HY-N0933

Androsterone is a metabolic product of testosterone and can activate Farnesoid X Receptor (FXR).

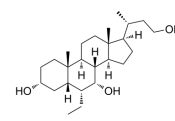


Purity: >98.0%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 100 mg, 250 mg

BAR502

Cat. No.: HY-101273

BAR502 is a dual FXR and GPBAR1 agonist with IC₅₀ values of 2 μ M and 0.4 μ M, respectively.



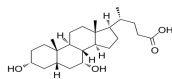
Purity: >98.0%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

Chenodeoxycholic Acid

(CDCA)

Cat. No.: HY-76847

Chenodeoxycholic Acid is a hydrophobic primary bile acid that activates nuclear receptors (FXR) involved in cholesterol metabolism.



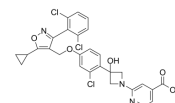
Purity: >98.0%
Clinical Data: Launched
Size: 10 mM \times 1 mL, 100 mg, 500 mg

Cilofexor

(GS-9674)

Cat. No.: HY-109083

Cilofexor (GS-9674) is a potent, selective and orally active nonsteroidal FXR agonist with an EC₅₀ of 43 nM. Cilofexor has anti-inflammatory and antifibrotic effects. Cilofexor has the potential for primary sclerosing cholangitis (PSC) and nonalcoholic steatohepatitis (NASH) research.

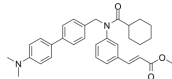


Purity: 99.82%
Clinical Data: Phase 3
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Fexaramine

Cat. No.: HY-10912

Fexaramine is a potent and selective FXR agonist with an EC₅₀ of 25 nM. Fexaramine has no activity against hRXR α , hPPAR α γ δ , mPXR, hPXR, hLXR α , hTR β , hRAR β , mCAR, mERR γ , and hVDR receptors.



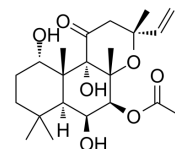
Purity: 99.24%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 10 mg, 50 mg

Forskolin

(Coleonol; Colforsin)

Cat. No.: HY-15371

Forskolin (Coleonol) is a potent adenylate cyclase activator with an IC₅₀ of 41 nM and an EC₅₀ of 0.5 μ M for type I adenylyl cyclase. Forskolin is also an inducer of intracellular cAMP formation.

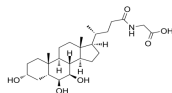


Purity: 99.82%
Clinical Data: No Development Reported
Size: 10 mg, 50 mg, 100 mg, 200 mg

Gly- β -MCA

Cat. No.: HY-114392

Gly- β -MCA, a bile acid, is a potent, stable, intestine-selective and oral bioactive farnesoid X receptor (FXR) inhibitor that may be a candidate for the treatment of metabolic disorders.

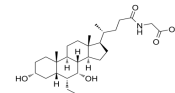


Purity: 98.11%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg

Glyco-Obeticholic acid

Cat. No.: HY-135400

Glyco-obeticholic acid is an active metabolite of Obeticholic acid. Obeticholic acid is a farnesoid X receptor (FXR) agonist.



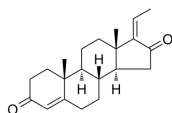
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Guggulsterone

(Z/E-Guggulsterone)

Cat. No.: HY-107738

Guggulsterone is a plant sterol derived from the gum resin of the tree Commiphora wightii.

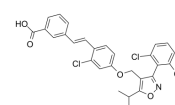


Purity: 99.50%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

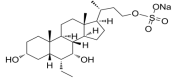
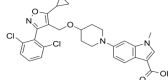
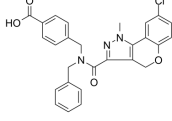
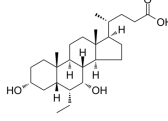
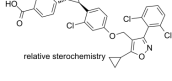
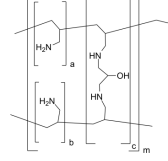
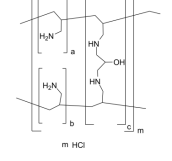
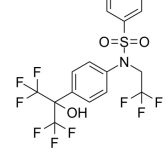
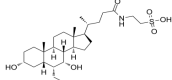
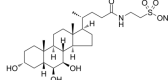
GW 4064

Cat. No.: HY-50108

GW 4064 is a potent FXR agonist with an EC₅₀ of 65 nM.



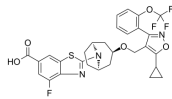
Purity: 99.76%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg

<p>INT-767</p> <p style="text-align: right;">Cat. No.: HY-12434</p>	<p>LY2562175</p> <p style="text-align: right;">Cat. No.: HY-103704</p>
<p>INT-767 is a dual farnesoid X receptor (FXR)/TGR5 agonist with mean EC_{50}s of 30 and 630 nM, respectively.</p> <p style="text-align: center;"></p> <p>Purity: >98.0% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg</p>	<p>LY2562175 is a potent and selective FXR agonist, with an EC_{50} of 193 nM.</p> <p style="text-align: center;"></p> <p>Purity: 99.87% Clinical Data: No Development Reported Size: 1 mg, 5 mg, 10 mg, 25 mg, 50 mg</p>
<p>Nidufexor (LMB763)</p> <p style="text-align: right;">Cat. No.: HY-109096</p>	<p>Obeticholic acid (INT-747; 6-ECDCA; 6-Ethylchenodeoxycholic acid)</p> <p style="text-align: right;">Cat. No.: HY-12222</p>
<p>Nidufexor (LMB763) is an orally-available farnesoid X receptor (FXR) agonist for the research of nonalcoholic steatohepatitis (NASH).</p> <p style="text-align: center;"></p> <p>Purity: 99.83% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>Obeticholic acid (INT-747) is a potent, selective and orally active FXR agonist with an EC_{50} of 99 nM. Obeticholic acid has anticholeretic and anti-inflammation effect. Obeticholic acid also induces autophagy.</p> <p style="text-align: center;"></p> <p>Purity: >98.0% Clinical Data: Launched Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg</p>
<p>PX20606 trans racemate (PX-102 trans racemate)</p> <p style="text-align: right;">Cat. No.: HY-100443A</p>	<p>Sevelamer</p> <p style="text-align: right;">Cat. No.: HY-13995</p>
<p>PX20606 trans racemate (PX-102 trans racemate) is a FXR agonist with EC_{50}s of 32 and 34 nM for FXR in FRET and M1H assay, respectively.</p> <p style="text-align: center;"></p> <p>Purity: 99.01% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 1 mg, 2 mg</p>	<p>Sevelamer is a phosphate binding drug used to treat hyperphosphatemia in patients with chronic kidney disease; consists of polyallylamine that is crosslinked with epichlorohydrin.</p> <p style="text-align: center;"></p> <p>Purity: >98% Clinical Data: Launched Size: 1 mg, 5 mg</p>
<p>Sevelamer hydrochloride</p> <p style="text-align: right;">Cat. No.: HY-13995A</p>	<p>T0901317</p> <p style="text-align: right;">Cat. No.: HY-10626</p>
<p>Sevelamer hydrochloride is a phosphate binding drug used to treat hyperphosphatemia in patients with chronic kidney disease; consists of polyallylamine that is crosslinked with epichlorohydrin.</p> <p style="text-align: center;"></p> <p>Purity: >98.0% Clinical Data: Launched Size: 100 mg, 500 mg</p>	<p>T0901317 is an orally active and highly selective LXR agonist with an EC_{50} of 20 nM for LXRα. T0901317 activates FXR with an EC_{50} of 5 μM. T0901317 is RORα and RORγ dual inverse agonist with K_i values of 132 nM and 51 nM, respectively.</p> <p style="text-align: center;"></p> <p>Purity: 99.91% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg</p>
<p>Tauro-Obeticholic acid</p> <p style="text-align: right;">Cat. No.: HY-135399</p>	<p>Tauro-β-muricholic acid sodium (T-βMCA sodium)</p> <p style="text-align: right;">Cat. No.: HY-135103</p>
<p>Tauro-Obeticholic acid is an active metabolite of Obeticholic acid. Obeticholic acid is an orally bioavailable farnesoid-X receptor (FXR) agonist.</p> <p style="text-align: center;"></p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p>	<p>Tauro-β-muricholic Acid sodium (T-βMCA sodium), an endogenous metabolite, is a competitive and reversible farnesoid X receptor (FXR) antagonist, with an IC_{50} of 40 μM.</p> <p style="text-align: center;"></p> <p>Purity: >95.0% Clinical Data: No Development Reported Size: 1 mg</p>

Tropifexor
(LJN452)

Cat. No.: HY-107418

Tropifexor (LJN452) is a highly potent agonist of FXR with an EC_{50} of 0.2 nM.

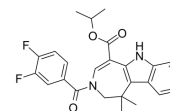


Purity: 99.35%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg

Turofexorate isopropyl
(FXR-450; XL335; WAY-362450)

Cat. No.: HY-50911

Turofexorate isopropyl (FXR-450) is a potent, selective, and orally bioavailable FXR agonist with EC_{50} of 4 nM.

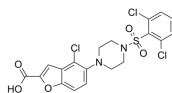


Purity: 99.63%
Clinical Data: Phase 1
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Vonafexor
(EYP001)

Cat. No.: HY-109197

Vonafexor (EYP001) is a selective FXR agonist with anti-HBV effects.



Purity: 99.87%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg