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Inhibitors, Agonists, Screening Libraries

ROR

RAR-related orphan receptor

The retinoic acid-related orphan receptor (ROR) subgroup of nuclear receptors consists of three members, ROR α , - β and - γ (NR1F1-3 or RORA-C). RORs regulate several important physiological processes and have been implicated in a number of pathologies. ROR α is critical for cerebellar development and bone formation, while ROR β regulates functions in the brain and retina. ROR γ plays a key role in lymph node development and thymopoiesis. Furthermore, both ROR α and ROR γ are involved in regulating various metabolic pathways, inflammatory responses and immune functions, including Th17 cell differentiation.

The retinoic acid receptor-related orphan receptors α and γ (ROR α and ROR γ), are key regulators of helper T (Th)17 cell differentiation, which is involved in the innate immune system and autoimmune disorders. ROR α/γ are members of the nuclear hormone receptor superfamily, which contains a signature type II zinc finger DNA binding motif and a hydrophobic ligand binding pocket.

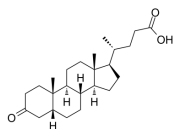
ROR Inhibitors, Agonists, Antagonists & Modulators

3-Oxo-5 β -cholanoic acid

(Dehydrolithocholic acid; 3-oxoLCA)

Cat. No.: HY-125801

3-Oxo-5 β -cholanoic acid (Dehydrolithocholic acid), a bile acid metabolite, inhibits the differentiation of TH17 cells by directly binding to the key transcription factor ROR γ t ($K_d=1.13$ μ M).

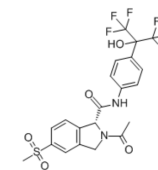


Purity: >98.0%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 10 mg, 50 mg, 100 mg

AZD-0284

Cat. No.: HY-120384

AZD-0284 is a selective inverse agonist of the nuclear receptor ROR γ . AZD-0284 has the potential for plaque psoriasis vulgaris and respiratory tract disorders treatment.

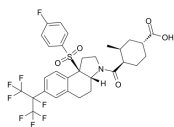


Purity: 99.92%
Clinical Data: Phase 1
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

BMS-986251

Cat. No.: HY-136527

BMS-986251 is an orally active and selective ROR γ t inverse agonist with an EC_{50} of 12 nM for ROR γ t GAL4. BMS-986251 inhibits IL-17 with an EC_{50} of 24 nM in human whole blood assay.



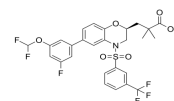
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Cintirorgon

(LYC-55716)

Cat. No.: HY-104037

Cintirorgon (LYC-55716) is a first-in-class, selective and orally bioavailable ROR γ agonist.

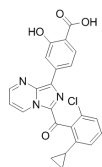


Purity: 99.95%
Clinical Data: Phase 2
Size: 10 mM \times 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

GNE-6468

Cat. No.: HY-19775

GNE-6468 is a potent and selective ROR γ (RORc) agonists with an EC_{50} value of 13 nM for HEK-293 cell.

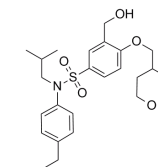


Purity: 99.50%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg, 250 mg

GSK2981278

Cat. No.: HY-19770

GSK2981278 is a potent and selective ROR γ inverse agonist. GSK2981278 inhibits activation of the il17 promoter and interferes ROR γ -DNA binding.

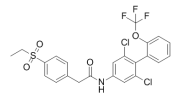


Purity: 99.70%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

GSK805

Cat. No.: HY-12776

GSK805 is a potent, orally bioavailable, and CNS penetrant ROR γ t inhibitor with pIC_{50} of 8.4 and >8.2 for ROR γ FRET assay and Th17 assay.

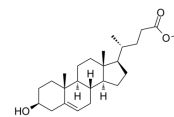


Purity: 97.14%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Methyl-3 β -hydroxycholelate

Cat. No.: HY-100084

Methyl-3 β -hydroxycholelate is a ROR γ modulator extracted from patent US20110263046 A1, in figure 2.

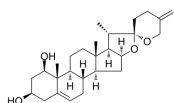


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Neuroscogenin

Cat. No.: HY-N2253

Neuroscogenin, a member of the steroidal sapogenin family, is a bioavailable, potent, and high-affinity agonist of the nuclear receptor ROR α (NR1F1).

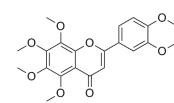


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 20 mg

Nobiletin

Cat. No.: HY-N0155

Nobiletin is a poly-methoxylated flavone from the citrus peel that improves memory loss. Nobiletin is a retinoid acid receptor-related orphan receptors (RORs) agonist.



Purity: 99.04%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

<p>PF-06747711</p> <p>Cat. No.: HY-112706</p>	<p>SR0987</p> <p>Cat. No.: HY-101454</p>
<p>PF-06747711 is a potent, selective, and orally active retinoic acid receptor-related orphan C2 (RORC2, also known as RORγt) inverse agonist, with an IC₅₀ of 4.1 nM. Anti-skin inflammatory activity.</p> <p>Purity: 99.48%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg</p>	<p>SR0987, a SR1078 analog, is a RORγt agonist, with an EC₅₀ of 800 nM. SR0987 increases IL17 expression while repressing the expression of PD-1.</p> <p>Purity: 99.56%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p>SR1001</p> <p>Cat. No.: HY-13421</p>	<p>SR1078</p> <p>Cat. No.: HY-14422</p>
<p>SR1001 is a selective RORα and RORγt inverse agonist with K_s 172 and 111 nM, respectively.</p> <p>Purity: 99.84%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg</p>	<p>SR1078 is a selective agonist of retinoic acid receptor-related orphan receptor α/γ (RORα/RORγ). SR1078 directly binds to the ligand binding domain of RORα and RORγ and increases the transcriptional activity of these receptors, leading to stimulation of RORα/γ target gene transcription.</p> <p>Purity: 99.67%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>SR2211</p> <p>Cat. No.: HY-16998</p>	<p>SR3335 (ML 176)</p> <p>Cat. No.: HY-14413</p>
<p>SR2211 is a potent, selective synthetic RORγ modulator and functions as an inverse agonist, with a K_i of 105 nM and an IC₅₀ of ~320 nM.</p> <p>Purity: 98.59%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg</p>	<p>SR3335 (ML 176) is a selective RORα inverse agonist that directly binds to RORα with a K_i of 220 nM.</p> <p>Purity: 99.43%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>T0901317</p> <p>Cat. No.: HY-10626</p>	<p>TMP778</p> <p>Cat. No.: HY-102075A</p>
<p>T0901317 is an orally active and highly selective LXR agonist with an EC₅₀ of 20 nM for LXRα. T0901317 activates FXR with an EC₅₀ of 5 μM. T0901317 is RORα and RORγ dual inverse agonist with K_i values of 132 nM and 51 nM, respectively.</p> <p>Purity: 99.91%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg</p>	<p>TMP778 is a potent and selective RORγt inverse agonist, with an IC₅₀ of 7 nM in FRET assay.</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p>TMP780</p> <p>Cat. No.: HY-102075B</p>	<p>TMP920</p> <p>Cat. No.: HY-117819</p>
<p>TMP780 is an inverse agonist of RORγt with an IC₅₀ of 13 nM. RORγt is a tractable drug target for the treatment of cutaneous inflammatory disorders.</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	<p>TMP920 is a highly potent and selective RORγt antagonist. TMP920 inhibits RORγt binding to the SRC1 peptide with an IC₅₀ of 0.03 μM.</p> <p>Purity: 99.88%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>

