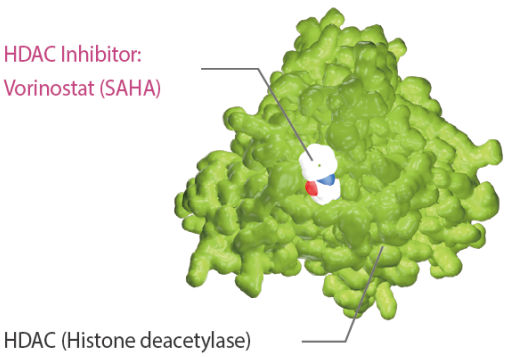
RAR/RXR

Retinoic acid receptors;Retinoid X receptors



The nuclear retinoic acid receptors (RARs) are transcriptional transregulators, which control the expression of specific gene subsets subsequently to ligand binding and to strictly controlled phosphorylation processes. RARs consist of three subtypes, α (NR1B1), β (NR1B2) and γ (NR1B3), encoded by separate genes. RARs function as ligand-dependent transcriptional regulators, heterodimerized with retinoid X receptors (RXRs), which also consist of three types, α NR2B1, β (NR2B2) and γ (NR2B3). RARs play critical roles in a variety of biological processes, including development, reproduction, immunity, organogenesis and homeostasis, as assessed by vitamin A-deficiency (VAD), pharmacological and genetic studies conducted in the mouse.

Retinoid X receptor (RXR) belongs to a family of ligand-activated transcription factors that regulate many aspects of metazoan life. A class of nuclear receptors requires RXR as heterodimerization partner for their function.

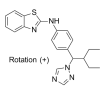
RAR/RXR Inhibitors & Modulators

(+)-Talarozole

Cat. No.: HY-14802C

Bioactivity: (+)-Talarozole is a potent inhibitor of **retinoic acid** metabolism extracted from patent WO 1997049704 A1.

Purity: 99.28%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
1 mg, 5 mg, 10 mg, 25 mg, 50 mg

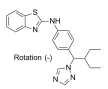


(-)-Talarozole

Cat. No.: HY-14802D

Bioactivity: (-)-Talarozole is a potent inhibitor of **retinoic acid** metabolism extracted from patent WO 1997049704 A1.

Purity: 98.02%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
1 mg, 5 mg, 10 mg, 25 mg, 50 mg

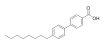


AC-55649

Cat. No.: HY-108526

Bioactivity: AC-55649 is a potent, highly isoform-selective agonist of human **RARβ2** receptor, with a **pEC_{50}** of 6.9.

Purity: 99.93%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

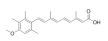


Acitretin
(Ro 10-1670)

Cat. No.: HY-B0107

Bioactivity: Acitretin(Ro 10-1670) is a second-generation, systemic retinoid that has been used in the treatment of psoriasis.

Purity: 99.56%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO,
100 mg, 200 mg, 500 mg

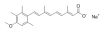


Acitretin sodium
(Ro 10-1670 sodium)

Cat. No.: HY-B0107A

Bioactivity: Acitretin sodium(Ro 10-1670) is a second-generation, systemic retinoid that has been used in the treatment of psoriasis.

Purity: >98%
Clinical Data: Launched
Size: 100 mg, 200 mg, 500 mg

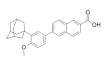


Adapalene
(CD271)

Cat. No.: HY-B0091

Bioactivity: Adapalene(CD-271; Differin), a synthetic retinoid, is a retinoic acid receptor agonist (RAR).

Purity: 98.0%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO,
50 mg, 100 mg, 500 mg

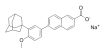


Adapalene sodium salt
(CD 271 sodium salt)

Cat. No.: HY-B0091A

Bioactivity: Adapalene sodium salt(CD 271; Differin), a synthetic retinoid, is a Retinoic acid receptor agonist (RAR).

Purity: >98%
Clinical Data: Launched
Size: 50 mg, 100 mg, 500 mg

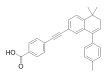


AGN 193109

Cat. No.: HY-U00449

Bioactivity: AGN 193109 is a retinoid analog, and acts as a specific and highly effective antagonist of **retinoic acid receptors (RARs)**, with **K_d**s of 2 nM, 2 nM, and 3 nM for **RARα**, **RARβ**, and **RARγ**, respectively.

Purity: 98.50%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

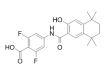


AGN 194078

Cat. No.: HY-100273

Bioactivity: AGN 194078 is a selective **RARα** agonist with a **K_d** and **EC_{50}** of 3 and 112 nM, respectively.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg

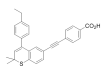


AGN 194310
(VTP-194310)

Cat. No.: HY-16681

Bioactivity: AGN 194310(VTP-194310) is a potent and selective pan-RARs agonist with Kd values of 3/2/5 nM for RARα/β/γ respectively.

Purity: 98.02%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
1 mg, 5 mg, 10 mg, 25 mg, 50 mg



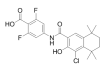
Tel: 609-228-6898 Fax: 609-228-5909 Email: sales@MedChemExpress.com

AGN 195183

Cat. No.: HY-16684

Bioactivity: AGN 195183 is a potent and selective agonist of RARα(Kd=3 nM) with improved binding selectivity relative to AGN 193836; no activity on RARβ/γ. IC50 value: 3 nM (Kd); 200 nM (EC80, RAR Trans.) Target: RARα agonist Compound 4(AGN-195183) inhibited the growth of breast cancer cell lines, and was inactive in an...

Purity: 98.40%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg

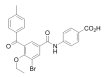


AGN 196996

Cat. No.: HY-16682

Bioactivity: AGN 196996 is a potent and selective RARα antagonist with Ki value of 2 nM; little binding affinity for RARβ(Ki=1087 nM) and RARγ(Ki=8523 nM).

Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg

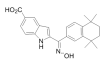


AGN 205327

Cat. No.: HY-16685

Bioactivity: AGN 205327 is a potent synthetic RARs agonist with EC50 of 3766/734/32 nM for RARα/β/γ respectively; no inhibition on RXR.

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

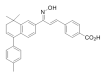


AGN 205728

Cat. No.: HY-16683

Bioactivity: AGN 205728 is a potent and selective RARγ antagonist with Ki/IC95 values of 3 nM/ 0.6 nM; no inhibiton on RARα and RARβ.

Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg



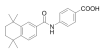
AM580

(CD336; NSC608001; Ro 40-6055)

Cat. No.: HY-10475

Bioactivity: AM580 is a selective **RARα** agonist with **IC_{50}** and **EC_{50}** of 8 nM and 0.36 nM, respectively.

Purity: 99.41%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg

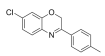


AR7

Cat. No.: HY-101106

Bioactivity: AR7 is a retinoic acid receptor α (**RARα**) antagonist.

Purity: 98.77%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg



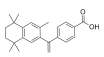
Bexarotene

(LGD1069)

Cat. No.: HY-14171

Bioactivity: Bexarotene (LGD1069) is a selective **retinoid X receptors (RXR)** agonist for the treatment of cutaneous T-cell lymphoma.

Purity: 99.81%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 50 mg, 100 mg, 500 mg



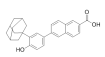
CD437

(AHPN)

Cat. No.: HY-100532

Bioactivity: CD437 is a selective **Retinoic Acid Receptor γ (RARγ)** agonist.

Purity: 98.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg



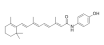
Fenretinide

(4-HPR)

Cat. No.: HY-15373

Bioactivity: Fenretinide is a synthetic retinoid deriverative, binding to the retinoic acid receptors (**RAR**) at concentrations necessary to induce cell death.

Purity: 99.41%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg



Isotretinoin

(13-cis-Retinoic acid)

Cat. No.: HY-15127

Bioactivity: Isotretinoin(13-cis-Retinoic acid) is a medication used for the treatment of severe acne. It was first developed to be used as a chemotherapy medication for the treatment of brain cancer, pancreatic cancer and more. Target: RAR/RXR Isotretinoin has been the most effective and long-lasting drug...

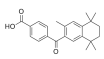
Purity: 94.86%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 100 mg, 500 mg

LG-100064

Cat. No.: HY-104070

Bioactivity: LG-100064 is a **retinoid-X-receptor (RXR)** agonist, with **EC_{50}**s of 330 nM, 200 nM, and 260 nM for RXRα, RXRβ and RXRγ; LG-100064 can be used in the research of cancer.

Purity: >98%
Clinical Data: No Development Reported
Size: 500 mg, 250 mg

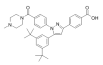


LY2955303

Cat. No.: HY-107765

Bioactivity: LY2955303 is a potent and selective **retinoic acid receptor gamma** (**RARγ**) antagonist with a **K_i** of 1.09 nM.

Purity: 98.25%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg

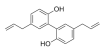


Magnolol

Cat. No.: HY-N0163

Bioactivity: Magnolol, a natural lignan isolated from the stem bark of Magnolia officinalis, is a dual agonist of both **RXRα** and **PPARγ**, with **EC_{50}** values of 10.4 μM and 17.7 μM, respectively.

Purity: 99.72%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg



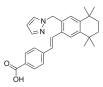
Palovarotene

(R 667; Ro 3300074)

Cat. No.: HY-14799

Bioactivity: Palovarotene is a nuclear retinoic acid receptor γ (**RAR-γ**) agonist.

Purity: 99.16%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 100 mg



Retinoic acid

(ATRA; Tretinoin; Vitamin A acid; all-trans-Retinoic acid)

Cat. No.: HY-14649

Bioactivity: Retinoic acid is a metabolite of vitamin A that plays important roles in cell growth, differentiation, and organogenesis. Retinoic acid is a natural agonist of **RAR** nuclear receptors, with **IC_{50}**s of 14 nM for RARα/β/γ. Retin...

Purity: 98.36%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 100 mg, 500 mg, 1 g, 5 g

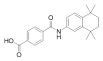
Tamibarotene

(Am 80)

Cat. No.: HY-14652

Bioactivity: Tamibarotene is a **retinoic acid receptor α/β (RARα/β)** agonist, showing high selectivity over RARγ.

Purity: 99.77%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg



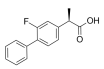
Tarenflurbil

((R)-Flurbiprofen; MPC7869)

Cat. No.: HY-10291

Bioactivity: Tarenflurbil ((R)-Flurbiprofen) is the R-enantiomer of the racemate NSAID Flurbiprofen, Tarenflurbil ((R)-Flurbiprofen) inhibits the binding of [^{3}H]9-cis-RA to **RXRα** LBD with **IC_{50}** of 75 μM.

Purity: 99.99%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 100 mg



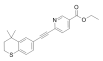
Tazarotene

(AGN 190168)

Cat. No.: HY-15388

Bioactivity: Tazarotene (AGN 190168) is a selective retinoic acid receptor (**RAR**) agonist for the treatment of plaque psoriasis and acne vulgaris.

Purity: 98.68%
Clinical Data: Launched
Size: 10 mg, 50 mg, 100 mg



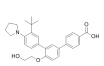
Trifarotene

(CD5789)

Cat. No.: HY-100256

Bioactivity: Trifarotene is a retinoic acid receptor (**RAR**) agonist with **K_d^{app}** of 2, 15 and 500 nM for **RARγ**, **RARβ** and **RARα**, respectively.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg



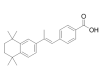
TTNPB

(Ro 13-7410; Arotinoid acid; AGN191183)

Cat. No.: HY-15682

Bioactivity: TTNPB is a highly potent **RAR** agonist. Competitive binding assays using human RARs yield **IC_{50}**s of **α**=5.1 nM, **β**= 4.5 nM, and **γ**=9.3 nM, respectively.

Purity: 99.31%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg



UVI 3003

Cat. No.: HY-107500

Bioactivity: UVI 3003 is a highly selective antagonist of **retinoid X receptor (RXR)**, and inhibits xenopus and human **RXRα** in Cos7 cells, with **IC_{50}**s of 0.22 and 0.24 μM, respectively.

Purity: 98.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 25 mg, 50 mg