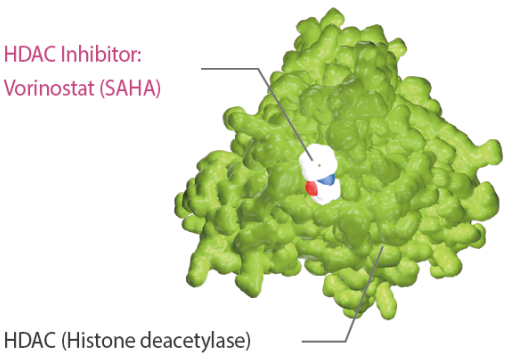
Androgen Receptor



Androgen receptor (AR) is a type of nuclear receptor that is activated by binding of either of the androgenic hormones testosterone or dihydrotestosterone in the cytoplasm and then translocating into the nucleus. Upon binding the hormone ligand, the receptor dissociates from accessory proteins, translocates into the nucleus, dimerizes, and then stimulates transcription of androgen responsive genes. The androgen receptor is most closely related to the progesterone receptor, and progestins in higher dosages can block the androgen receptor. The main function of the androgen receptor is as a DNA-binding transcription factor that regulates gene expression. Androgen regulated genes are critical for the development and maintenance of the male sexual phenotype. Mutations in this gene are also associated with complete androgen insensitivity (CAIS).

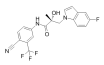
Androgen Receptor Inhibitors & Modulators

(R)-UT-155

Cat. No.: HY-112895A

Bioactivity: (R)-UT-155 (compound 11) is a selective androgen receptor degrader **(SARD)** ligand. Less active than the S-isomer [1] [2].

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



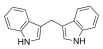
3,3'-Diindolylmethane

(DIM; Arundine; HB 236)

Cat. No.: HY-15758

Bioactivity: 3,3'-Diindolylmethane is a strong, pure **androgen receptor** (AR) antagonist.

Purity: 98.74%
Clinical Data: Phase 4
Size: 10mM x 1mL in DMSO,
100 mg, 200 mg, 500 mg

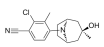


ACP-105

Cat. No.: HY-112256

Bioactivity: ACP-105 is an orally available, selective amd potent **androgen receptor** modulator (SARM), with **pEC$_{50}$s** of 9.0 and 9.3 for AR wild type and T877A mutant, respectively.

Purity: 98.37%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 25 mg, 50 mg, 100 mg



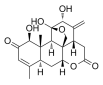
Ailanthone

(Δ13-Dehydrochaparrinone)

Cat. No.: HY-N1943

Bioactivity: Ailanthone (Δ13-Dehydrochaparrinone) is a potent inhibitor of both full-length **androgen receptor (AR)** (**IC$_{50}$**=69nM) and constitutively active truncated AR splice variants (AR $_{1-651}$ **IC$_{50}$**=309nM).

Purity: 99.71%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg



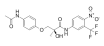
Andarine

(GTx-007; S-4)

Cat. No.: HY-12023

Bioactivity: Andarine (S-4) is an investigational selective androgen receptor modulator (SARM) and an active partial agonist.

Purity: 99.51%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg

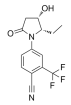


Androgen receptor modulators 1

Cat. No.: HY-101781

Bioactivity: Androgen receptor modulators 1 is a **selective androgen receptor modulator (SARM)**. Androgen receptor modulators 1 has strong agonistic activities with an **EC$_{50}$** of 4.7 nM [1].

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



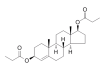
Androst-4-ene-3,17-diol, dipropanoate, (3β,17β)-

(Androst-4-ene-3β,17β-diol, dipropionate)

Cat. No.: HY-U00272

Bioactivity: Androst-4-ene-3,17-diol, dipropanoate, (3β,17β)- is the dipropanoate of 4-Androstenediol, a metabolite of testosterone.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg



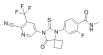
Apalutamide

(ARN-509)

Cat. No.: HY-16060

Bioactivity: Apalutamide (ARN-509) is a potent and competitive **androgen receptor** (**AR**) antagonist, binding AR with an **IC$_{50}$** of 16 nM.

Purity: 99.23%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg

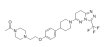


AZD3514

Cat. No.: HY-16079

Bioactivity: AZD3514 is a potent and oral androgen receptor downregulator with Ki of 2.2 μM and has ability of reducing AR protein expression.

Purity: 98.77%
Clinical Data: Phase 1
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg

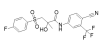


Bicalutamide

Cat. No.: HY-14249

Bioactivity: Bicalutamide is a non-steroidal **androgen receptor** inhibitor.

Purity: 99.61%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO,
100 mg, 200 mg, 500 mg



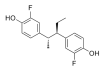
Tel: 609-228-6898 Fax: 609-228-5909 Email: sales@MedChemExpress.com

Bifluranol

(BX341) Cat. No.: HY-U00229

Bioactivity: Bifluranol (BX341) is an anti-androgen.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg

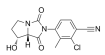


BMS-564929

Cat. No.: HY-12111

Bioactivity: BMS-564929 is an **androgen receptor** (AR) agonist, binds to androgen receptor (AR) with a K_i of 2.11±0.16 nM.

Purity: 98.70%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg

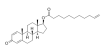


Boldenone Undecylenate

(Ba 29038) Cat. No.: HY-17434

Bioactivity: Boldenone undecylenate(Equipoise) is a synthetic steroid which has a similar effect as the natural steroid testosterone; it is frequently used in veterinary medicine, though it is also used in humans. IC50 Value: Target: The effects of this steroid are more subtle than that of many other steroids. in...

Purity: 96.33%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

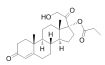


Clascoterone (Cortexolone 17 alpha-propionate; Cortexolone 17α-propionate; CB-03-01)

Cat. No.: HY-13331

Bioactivity: Clascoterone is a new topical and peripherally selective androgen antagonist.

Purity: 98.76%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

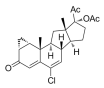


Cyproterone acetate

Cat. No.: HY-13604

Bioactivity: Cyproterone acetate is an androgen receptor (AR) antagonist with IC50 of 7.1 nM, as well as a weak progesterone receptor agonist with weak pro-gestational and glucocorticoid activity.

Purity: 99.71%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 250 mg, 500 mg

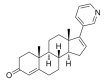


D4-abiraterone

(Δ4-Abiraterone; CB-7627; Abiraterone D4A metabolite) Cat. No.: HY-109619

Bioactivity: D4-abiraterone is a major metabolite of abiraterone. D4-abiraterone is an inhibitor of **CYP17A1**, 3b-hydroxysteroid dehydrogenase (**3βHSD**) and steroid-5a-reductase (**SRD5A**) and also an antagonist of **androgen receptor**.

Purity: 99.42%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg

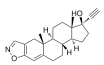


Danazol

Cat. No.: HY-B1029

Bioactivity: Danazol is a derivative of the synthetic steroid ethisterone, that suppresses the production of gonadotrophins, and has some weak androgenic effects.

Purity: 98.28%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 100 mg, 250 mg

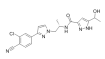


Darolutamide

(ODM-201; BAY-1841788) Cat. No.: HY-16985

Bioactivity: Darolutamide (ODM-201;BAY-1841788) is a potent androgen receptor (**AR**) antagonist with an IC_{50} of 26 nM in in vitro assay.

Purity: 97.72%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

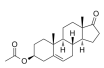


Dehydroisoandrosterone 3-acetate

(Dehydroepiandrosterone 3-acetate; DHEA acetate) Cat. No.: HY-B1405

Bioactivity: Dehydroepiandrosterone 3-acetate is a testosterone/estrogen precursor and known modulator of vertebrate aggression.

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

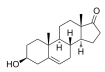


DHEA (Prasterone; Dehydroisoandrosterone; Dehydroepiandrosterone)

Cat. No.: HY-14650

Bioactivity: DHEA (Prasterone) is one of the most abundant steroid hormones. DHEA (Prasterone) mediates its action via multiple signaling pathways involving specific membrane receptors and via transformation into androgen and estrogen derivatives (e.g., androgens, estrogens, 7α and 7β DHEA, and 7α and 7β...

Purity: 98.0%
Clinical Data: Phase 4
Size: 10mM x 1mL in DMSO, 100 mg, 500 mg

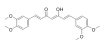


Dimethylcurcumin

(ASC-J9; GO-Y025) Cat. No.: HY-15194

Bioactivity: Dimethylcurcumin (ASC-J9) is an **androgen receptor** degradation enhancer that effectively suppresses castration resistant prostate cancer cell proliferation and invasion.

Purity: 98.06%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg

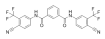


DJ-V-159

Cat. No.: HY-114165

Bioactivity: DJ-V-159 is an agonist for G protein-coupled receptor family C group 6 member A **(GPRC6A)**.

Purity: 99.99%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

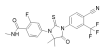


Enzalutamide

(MDV3100) Cat. No.: HY-70002

Bioactivity: Enzalutamide (MDV3100) is an **androgen receptor (AR)** antagonist with an $\mathbf{IC_{50}}$ of 36 nM in LNCaP prostate cells.

Purity: 99.71%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg, 1 g, 2 g, 5 g



Epiandrosterone

(3β-Androsterone; trans-Androsterone; iso-Androsterone) Cat. No.: HY-I0352

Bioactivity: Epiandrosterone is a steroid hormone with weak androgenic activity. Epiandrosterone is naturally produced by the enzyme 5α-reductase from the adrenal hormone DHEA.

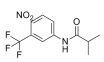
Purity: 98.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 1 g, 5 g

Flutamide

(SCH 13521) Cat. No.: HY-B0022

Bioactivity: Flutamide is an antiandrogen drug, with its active metablolite binding at androgen receptor with Ki values of 55 nM, and primarily used to treat prostate cancer.

Purity: 99.01%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 1 g, 5 g

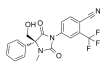


GLPG0492

Cat. No.: HY-18102

Bioactivity: GLPG0492 is a novel selective androgen receptor modulator; exhibited anabolic activity on muscle, strongly dissociated from the androgenic activity on prostate after oral dosing.

Purity: 99.66%
Clinical Data: Phase 1
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

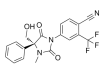


GLPG0492 R enantiomer

Cat. No.: HY-18102A

Bioactivity: GLPG0492 R enantiomer is the R enantiomer of GLPG-0492, which is a novel selective androgen receptor modulator.

Purity: 97.35%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

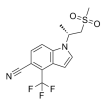


GSK-2881078

Cat. No.: HY-100186

Bioactivity: GSK 2881078 is a selective androgen receptor modulator potentially for the treatment of cachexia.

Purity: 99.37%
Clinical Data: Phase 1
Size: 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg

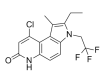


LGD-3303

Cat. No.: HY-103576

Bioactivity: LGD-3303 is a selective androgen receptor modulator (**SARM**).

Purity: 98.27%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

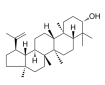


Lupeol

(Fagarasterol) Cat. No.: HY-N0790

Bioactivity: Lupeol is a novel **androgen receptor** inhibitor.

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

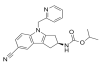


LY2452473

Cat. No.: HY-114530

Bioactivity: LY2452473 is an orally bioavailable, selective **androgen receptor** modulator (SARM).

Purity: 99.24%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg

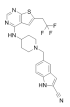


MI-136

Cat. No.: HY-19319

Bioactivity: MI-136 inhibits DHT-induced expression of androgen receptor (AR) target genes.

Purity: 98.64%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg



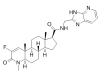
MK-0773

(PF-05314882)

Cat. No.: HY-11027

Bioactivity: MK-0773 is a **selective androgen receptor modulators (SARMs)** that binds to AR with an IC_{50} of 6.6 nM.

Purity: 99.48%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg



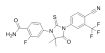
N-desmethyl Enzalutamide

(N-desmethyl MDV 3100)

Cat. No.: HY-70002A

Bioactivity: N-desmethyl Enzalutamide is the active metabolite of Enzalutamide. Enzalutamide is an **androgen-receptor (AR)** antagonist with IC_{50} of 36 nM in LNCaP cells.

Purity: 99.70%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg

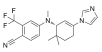


ODM-204

Cat. No.: HY-111421

Bioactivity: ODM-204 is novel nonsteroidal dual inhibitor of both **androgen receptor** and **CYP17A1 enzyme**, with IC_{50}s of 80 nM and 22 nM, respectively.

Purity: >98%
Clinical Data: No Development Reported
Size:

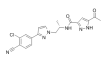


ORM-15341

Cat. No.: HY-19337

Bioactivity: ORM-15341 is a potent and full antagonist for human AR (hAR) with IC50 values of 38 nM as shown by transactivation assays in AR-HEK293 cells stably expressing full-length hAR and an androgen-responsive luciferase reporter gene construct.

Purity: 95.09%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg



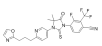
Proxalutamide

(GT0918)

Cat. No.: HY-103184

Bioactivity: Proxalutamide (GT0918) is a potent **androgen receptor (AR)** antagonist.

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

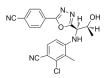


RAD140

Cat. No.: HY-14383

Bioactivity: RAD140 is a potent, orally bioavailable, nonsteroidal selective androgen receptor modulator (SARM).

Purity: 99.53%
Clinical Data: Phase 1
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg



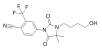
RU 58841

(PSK-3841; HMR-3841)

Cat. No.: HY-10561

Bioactivity: RU 58841 (PSK-3841) is a specific androgen receptor antagonist or anti-androgen. RU 58841 (PSK-3841) has a dramatic effect on hair regrowth.

Purity: 98.16%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
10 mg, 50 mg, 100 mg



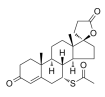
Spironolactone

(SC9420)

Cat. No.: HY-B0561

Bioactivity: Spironolactone is a potent antagonist of the androgen receptor. Target: Androgen Receptor Spironolactone is a potassium sparing diuretic that acts by antagonism of aldosterone in the distal renal tubules. It is used mainly in the treatment of refractory edema in patients with congestive...

Purity: 96.17%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO,
1 g, 5 g

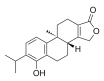


Triptophenolide

(Hypolide; (+)-Triptophenolide) Cat. No.: HY-N0475

Bioactivity: Triptophenolide is a colorless crystalline plate isolated from ethyl acetate extracts of Tripterygium wilfordii.

Purity: 99.32%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg

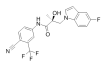


UT-155

Cat. No.: HY-112895

Bioactivity: UT-155 is a selective and potent androgen receptor **(AR)** antagonist, with a $\mathbf{K_i}$ of 267 nM for UT-155 binding to AR-LBD.

Purity: 99.39%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 25 mg, 50 mg, 100 mg



YK11

Cat. No.: HY-107480

Bioactivity: YK11 is a partial agonist of **androgen receptor**, with osteogenic activity.

Purity: 98.07%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 25 mg, 50 mg, 100 mg