Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

BMS-564929

Catalog No: tcsc1381

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
627530-84-1

Formula:
$C_{14}H_{12}ClN_3O_3$

Pathway:
Others

Target:
Androgen Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
305.72

Product Description

BMS-564929 is an **androgen receptor** (AR) agonist, binds to androgen receptor (AR) with a $\mathbf{K_i}$

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of 2.11±0.16 nM.

IC50 & Target: Ki: 2.11±0.16 nM (Androgen receptor)[1]

In Vitro: BMS-564929 exhibits a potency (EC_{50}, calculated as the concentration at which 50% of the maximum stimulatory effect of DHT is achieved) of 0.44±0.03 nM in the C2C12 myoblast cell line. In the PEC cell line, the EC_{50} for BMS-564929 is 8.66±0.22 nM. BMS-564929 is more than 1000-fold selective for AR vs. estrogen receptors (ER) α and β, glucocorticoid receptor (GR), and mineralocorticoid receptor (MR), and approximately 400-fold selective vs. progesterone receptor (PR). BMS-564929 shows no measurable activity in functional transactivation assays with ERα/β, GR, MR, or PR at concentrations up to 30 μM[1].

In Vivo: In sexually mature, castrated male rats, a well-characterized animal model, BMS-564929 (p.o.) shows substantially more potent activity in the levator ani, exhibiting an ED_{50} of 0.0009 mg/kg in the levator ani and an ED_{50} of 0.14 mg/kg in the prostate; a net 160-fold selectivity for muscle vs. prostate. Approximately 100% muscle stimulation is achieved at 0.1 mg/kg, reaching greater than 125% stimulation at 0.3 and 1 mg/kg. Compared with T propionate (TP) in the same model, BMS-564929 is more than 200 times more potent in stimulation of muscle and 80 times more selective for muscle vs. prostate[1].