

# 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

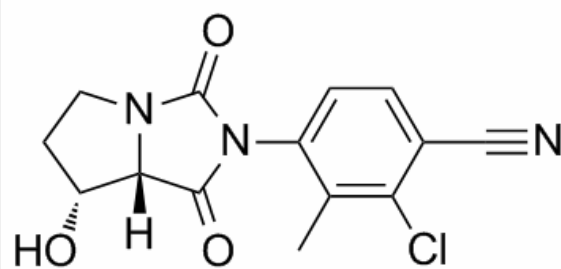
BMS-564929 is an **androgen receptor** (AR) agonist, binds to androgen receptor (AR) with a **K<sub>i</sub>**

of  $2.11 \pm 0.16$  nM.

IC<sub>50</sub> & Target: Ki:  $2.11 \pm 0.16$  nM (Androgen receptor)<sup>[1]</sup>

**In Vitro:** BMS-564929 exhibits a potency (EC<sub>50</sub>, calculated as the concentration at which 50% of the maximum stimulatory effect of DHT is achieved) of  $0.44 \pm 0.03$  nM in the C2C12 myoblast cell line. In the PEC cell line, the EC<sub>50</sub> for BMS-564929 is  $8.66 \pm 0.22$  nM. BMS-564929 is more than 1000-fold selective for AR vs. estrogen receptors (ER)  $\alpha$  and  $\beta$ , 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 ER $\alpha/\beta$ , GR, MR, or PR at concentrations up to 30  $\mu$ M<sup>[1]</sup>.

**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<sub>50</sub> of 0.0009 mg/kg in the levator ani and an ED<sub>50</sub> 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<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!