

BMS-564929

## Chemical Properties

CAS No. : 627530-84-1

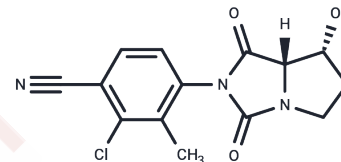
Formula: C<sub>14</sub>H<sub>12</sub>ClN<sub>3</sub>O<sub>3</sub>

Molecular Weight: 305.72

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	BMS-564929 is a highly effective androgen receptor (AR) agonist that upregulates the expression and activity of lipogenic enzymes, reduces VAT content and lipid content, and downregulates the expression of acetyl-CoA carboxylase, FASN, and SCD.
Targets(IC50)	Androgen Receptor
In vitro	BMS-564929 is a novel, highly effective and orally active non-steroidal tissue-selective androgen receptor (AR) modulator with $K_i = 2.11$ nM. The EC <sub>50</sub> value of BMS-564929 in mouse myoblasts (C2C12) and rat PEC cell lines was 0.44 nM and 8.66 nM, respectively. [1]
In vivo	BMS-564929 (0.00001 - 10 mg/kg, 14 days, gavage) is more effective than testosterone in stimulating the growth of the levator anal muscle and has a strong oral activity. [1]

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble) DMSO: 40 mg/mL (130.84 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.54 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.271 mL	16.3548 mL	32.7097 mL
5 mM	0.6542 mL	3.271 mL	6.5419 mL
10 mM	0.3271 mL	1.6355 mL	3.271 mL
50 mM	0.0654 mL	0.3271 mL	0.6542 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Ostrowski J, et al. Pharmacological and x-ray structural characterization of a novel selective androgen receptor modulator: potent hyperanabolic stimulation of skeletal muscle with hypostimulation of prostate in rats. *Endocrinology*. 2007 Jan;148(1):4-12.

Ventura E, et al. Development and validation of a semi-quantitative ultra-high performance liquid chromatography-tandem mass spectrometry method for screening of selective androgen receptor modulators in urine. *J Chromatogr A*. 2019 Aug 30;1600:183-196.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481