

BMS-564929

Chemical Properties

CAS No. : 627530-84-1

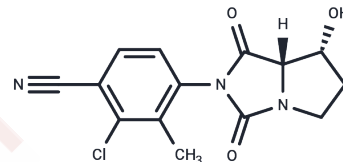
Formula: C₁₄H₁₂ClN₃O₃

Molecular Weight: 305.72

Appearance: no data available

Storage: store at low temperature

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



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 ₅₀ 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 ₂ 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)
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Preparing Stock Solutions

	1mg	5mg	10mg
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.

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

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