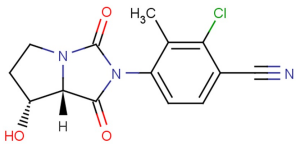
Data Sheet (Cat.No.T14675)

TargetMol
A DRUG SCREENING EXPERT

BMS-564929

Chemical Properties



CAS No.:	627530-84-1
Formula:	C14H12ClN3O3
Molecular Weight:	305.72
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	BMS-564929 is an agonist of androgen receptor (AR, Ki of 2.11±0.16 nM).
Targets(IC_{50})	Androgen receptor: (ki) 2.11±0.16 nM
In vitro	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. BMS-564929 shows no measurable activity in functional transactivation assays with ERα/β, GR, MR, or PR at concentrations up to 30 μM[1]. BMS-564929 exhibits a potency (EC50, 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 EC50 for BMS-564929 is 8.66±0.22 nM. progesterone receptor (PR).
In vivo	BMS-564929 is more than 200 times more potent in stimulation of muscle and 80 times more selective for muscle vs. prostate, compared with T propionate (TP) in the same model[1]. BMS-564929 (p.o.) shows substantially more potent activity in the levator ani, exhibiting an ED50 of 0.0009 mg/kg in the levator ani and an ED50 of 0.14 mg/kg in the prostate; a net 160-fold selectivity for muscle vs. prostate, in sexually mature, castrated male rats, a well-characterized animal model. Approximately 100% muscle stimulation is achieved at 0.1 mg/kg, reaching greater than 125% stimulation at 0.3 and 1 mg/kg.

Solubility Information

Solubility	DMSO: 50 mg/mL (163.55 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.271 mL	16.355 mL	32.71 mL
5 mM	0.654 mL	3.271 mL	6.542 mL
10 mM	0.327 mL	1.635 mL	3.271 mL
50 mM	0.065 mL	0.327 mL	0.654 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

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