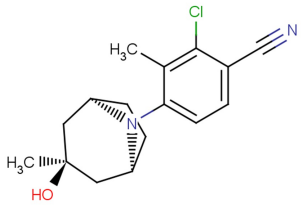
Data Sheet (Cat.No.T14116)

TargetMol
A DRUG SCREENING EXPERT

ACP-105

Chemical Properties



CAS No.:	899821-23-9
Formula:	C16H19ClN2O
Molecular Weight:	290.79
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	ACP-105 is a selective amd potent androgen receptor modulator (SARM). For AR wild type and T877A mutant, the pEC50s values are 9.0 and 9.3 , respectively.
Targets(IC_{50})	AR wild type: (pEC50) 9.0 AR T877A mutant: 9.3 (pEC50)
In vitro	ACP-105 is an orally available, selective amd potent androgen receptor modulator (SARM), with pEC50s of 9.0 and 9.3 for AR wild type and T877A mutant, respectively. The half-lives of ACP-105 (compound 1) in human hepatocytes is measured and found to be 5.0 h[1].
In vivo	ACP-105 enhances freezing in both sham-irradiated and irradiated mice (effect of ACP-105: F=5.44; p=0.028). For MAP-2 immunoreactivity in the cortex of sham-irradiated mice, there is a brain area×ACP-105 interaction (F=6.655; p=0.0027). While ACP-105 reduces MAP-2 immunoreactivity in the sensorymotor cortex, there is a trend towards increased MAP-2 immunoreactivity in the enthorhinal cortex[2].

Solubility Information

Solubility	DMSO: 103 mg/mL (354.21 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.439 mL	17.195 mL	34.389 mL
5 mM	0.688 mL	3.439 mL	6.878 mL
10 mM	0.344 mL	1.719 mL	3.439 mL
50 mM	0.069 mL	0.344 mL	0.688 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. Schlienger N, et al. Synthesis, structure-activity relationships, and characterization of novel nonsteroidal and selective androgen receptor modulators. J Med Chem. 2009 Nov 26;52(22):7186-91.
2. Dayger C, et al. Effects of the SARM ACP-105 on rotorod performance and cued fear conditioning in sham-irradiated and irradiated female mice. Brain Res. 2011 Mar 24;1381:134-40.

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