

ACP-105

Chemical Properties

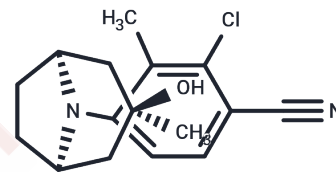
CAS No. : 899821-23-9

Formula: C₁₆H₁₉ClN₂O

Molecular Weight: 290.79

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	ACP-105 is a novel and potent nonsteroidal selective androgen receptor modulator (SARM) with partial agonist activity relative to the natural androgen testosterone.
Targets(IC50)	Androgen Receptor
In vitro	ACP-105 is an orally administered, selective, and potent androgen receptor modulator (SARM), demonstrating high affinity with pEC ₅₀ values of 9.0 and 9.3 for the AR wild type and T877A mutant, respectively. In human hepatocytes, the half-life of ACP-105 (compound 1) is determined to be 5.0 hours[1].
In vivo	Irradiation impaired sensorimotor function in vehicle-treated mice but not in ACP-105-treated mice. Irradiation impaired cued fear conditioning and ACP-105 enhanced fear conditioning in sham-irradiated and irradiated mice. There are relatively early radiation-induced behavioral changes in female mice and reduced MAP-2 levels in the sensorimotor cortex following ACP-105 treatment might contribute to enhanced rotarod performance[2].

Solubility Information

Solubility	DMSO: 60 mg/mL (206.33 mM), Sonication is recommended. Ethanol: 60 mg/mL (206.33 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	3.4389 mL	17.1945 mL	34.3891 mL
5 mM	0.6878 mL	3.4389 mL	6.8778 mL
10 mM	0.3439 mL	1.7195 mL	3.4389 mL
50 mM	0.0688 mL	0.3439 mL	0.6878 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

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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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