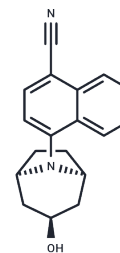


AC-262536

Chemical Properties

CAS No. : 870888-46-3
 Formula: C₁₈H₁₈N₂O
 Molecular Weight: 278.35
 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	AC-262536 is a selective androgen receptor (SAR) modulator and exhibits potent agonist activity at the androgen receptor. It has partial agonist activity with respect to testosterone and suppresses luteinizing hormone.
Targets(IC50)	Androgen Receptor
In vitro	AC-262536 inhibits dihydroxytestosterone (DHT)-induced proliferation of LNCaP in a dose-dependent manner. The effects are significant with 100 nM, and reaches a plateau with 1 μM[2].
In vivo	In male sprague-dawley rats, administration of AC-262536 (subcutaneous injection, once daily for 14 consecutive days) significantly decreased LH levels by about 40% at the 3 mg/kg dose. At the 10 and 30 mg/kg doses, the effects of AC-262536 were significantly stronger than Testosterone Propionate (TP) : 1.91±0.32 ng/mL and 1.53±0.34 ng/mL vs. 3.12±0.69 ng/mL, respectively[2].

Solubility Information

Solubility	DMSO: 50 mg/mL (179.63 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: 1 mg/mL (3.59 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

	1mg	5mg	10mg
1 mM	3.5926 mL	17.963 mL	35.926 mL
5 mM	0.7185 mL	3.5926 mL	7.1852 mL
10 mM	0.3593 mL	1.7963 mL	3.5926 mL
50 mM	0.0719 mL	0.3593 mL	0.7185 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

Piu F, Gardell LR, Son T, Schlienger N, Lund BW, Schiffer HH, Vanover KE, Davis RE, Olsson R, Bradley SR. Pharmacological characterization of AC-262536, a novel selective androgen receptor modulator. *J Steroid Biochem Mol Biol.* 2008 Mar;109(1-2):129-37. doi: 10.1016/j.jsbmb.2007.11.001. Epub 2007 Nov 22. PubMed PMID: 18164613.

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