

N-Desmethyl Pimavanserin

Chemical Properties

CAS No. : 639863-77-7

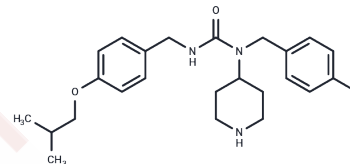
Formula: C₂₄H₃₂FN₃O₂

Molecular Weight: 413.53

Store at low temperature

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	N-Desmethyl Pimavanserin (AC-279) is the active metabolite of Pimavanserin, a 5-HT _{2A} receptor inverse agonist, which is used in the treatment of sleep disorders such as insomnia.
Targets(IC50)	5-HT Receptor, Drug Metabolite
In vitro	For Pimavanserin and its metabolite N-Desmethyl Pimavanserin (AC-279), the mean plasma half-lives are 57 hours and 200 hours, respectively.

Solubility Information

Solubility	DMSO: 50 mg/mL (120.91 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: 2 mg/mL (4.84 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	2.4182 mL	12.091 mL	24.182 mL
5 mM	0.4836 mL	2.4182 mL	4.8364 mL
10 mM	0.2418 mL	1.2091 mL	2.4182 mL
50 mM	0.0484 mL	0.2418 mL	0.4836 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

Vanover KE, et al. Pharmacological and behavioral profile of N-(4-fluorophenylmethyl)-N-(1-methylpiperidin-4-yl)-N'-(4-(2-methylpropyloxy)phenylmethyl) carbamide (2R,3R)-dihydroxybutanedioate (2:1) (ACP-103), a novel 5-hydroxytryptamine(2A) receptor inverse agonist. *J Pharmacol Exp Ther.* 2006 May;317(2):910-8.

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