N-Desmethyl Pimavanserin

Cat. No.: HY-135392

CAS No.: 639863-77-7

Molecular Formula: $C_{24}H_{32}FN_3O_2$

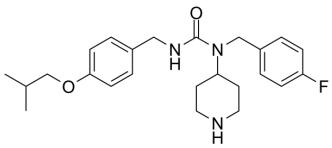
Molecular Weight: 413.53

Target: Drug Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (302.28 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4182 mL	12.0910 mL	24.1820 mL
	5 mM	0.4836 mL	2.4182 mL	4.8364 mL
	10 mM	0.2418 mL	1.2091 mL	2.4182 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.03 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.03 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Desmethyl Pimavanserin is the active metabolite of Pimavanserin. Pimavanserin is a selective inverse agonist of the 5-HT2A receptor with pIC_{50} and pK_d of 8.73 and 9.3, respectively.

In Vitro

The mean plasma half-lives for Pimavanserin and its metabolite N-Desmethyl Pimavanserin (AC-279) are 57 hours and 200 hours, respectively.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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 inver

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