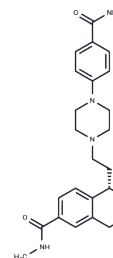


PNU-142633

Chemical Properties

CAS No. : 187665-65-2
 Formula: C₂₄H₃₀N₄O₃
 Molecular Weight: 422.52
 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	PNU-142633 has anti-migraine efficacy. PNU-142633 is a high affinity and selective 5-HT _{1D} receptor agonist (K _i s of 6 nM and > 18 000 nM for human 5-HT _{1D} receptor and human 5-HT _{1B} receptor, respectively).
Targets(IC ₅₀)	5-HT Receptor
In vitro	Compared with 84% for that of Sumatriptan, in a cytosensor cell-based assay, the intrinsic activity of PNU-142633 at the human 5-HT _{1D} receptor is determined to be 70% that of 5-HT [1].
In vivo	PNU-142633 fails to alter resistance in these vascular beds. PNU-142633 (0.03-1 mg/kg; intravenous injection; male Hartley guinea pigs) treatment blocks neurogenic plasma protein extravasation [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3668 mL	11.8338 mL	23.6675 mL
5 mM	0.4734 mL	2.3668 mL	4.7335 mL
10 mM	0.2367 mL	1.1834 mL	2.3668 mL
50 mM	0.0473 mL	0.2367 mL	0.4734 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

- McCall RB, et al. Preclinical studies characterizing the anti-migraine and cardiovascular effects of the selective 5-HT_{1D} receptor agonist PNU-142633. *Cephalalgia*. 2002 Dec;22(10):799-806.
 Gomez-Mancilla B, et al. Safety and efficacy of PNU-142633, a selective 5-HT_{1D} agonist, in patients with acute migraine. *Cephalalgia*. 2001 Sep;21(7):727-32.

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