

Mavatrep

Chemical Properties

CAS No. : 956274-94-5

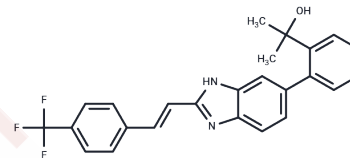
Formula: C₂₅H₂₁F₃N₂O

Molecular Weight: 422.44

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	Mavatrep (JNJ-39439335) is a selective antagonist of TRPV1 with K_i of 6.5 nM and can be used for studies about inflammatory pain.
Targets(IC ₅₀)	TRP/TRPV Channel
In vitro	In cells expressing recombinant human TRPV1 channels, Mavatrep antagonized capsaicin-induced Ca ²⁺ influx with an IC ₅₀ of 4.6 nM. Mavatrep blocked the activation of hTRPV1 channels by Capsaicin (1 μM, pH 5.0) in a concentration-dependent fashion[1].
In vivo	In the complete Freund's adjuvant- and carrageenan-induced thermal hypersensitivity models, Mavatrep exhibited full efficacy, with ED ₈₀ values of 7.8 and 0.5 mg/kg, respectively, corresponding to plasma levels of 270.8 and 9.2 ng/mL, respectively. On the basis of Mavatrep superior pharmacologic and safety profile, Mavatrep was selected for clinical development for the treatment of pain[1].

Solubility Information

Solubility	DMSO: 40 mg/mL (94.69 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 (4.73 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	2.3672 mL	11.836 mL	23.672 mL
5 mM	0.4734 mL	2.3672 mL	4.7344 mL
10 mM	0.2367 mL	1.1836 mL	2.3672 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

Parsons WH, et al. Benzo[d]imidazole Transient Receptor Potential Vanilloid 1 Antagonists for the Treatment of Pain: Discovery of trans-2-(2-{2-[2-(4-Trifluoromethyl-phenyl)-vinyl]-1H-benzimidazol-5-yl}-phenyl)-propan-2-ol (Mavatrip). J Med Chem. 2015 May

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481