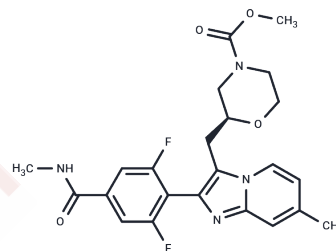


Camlipixant

Chemical Properties

CAS No. :	1621164-74-6
Formula:	C23H24F2N4O4
Molecular Weight:	458.46
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Camlipixant (BLU-5937) is an orally active purine P2X3 receptor antagonist that is potent, selective and competitive. camlipixant has an IC50 of 25 nM for the hP2X3 homotrimer. camlipixant can be used for the treatment of respiratory disorders and Camlipixant has a strong cough suppressant effect.
Targets(IC50)	P2X Receptor
In vitro	Camlipixant (BLU-5937 ; 500 nM) blocks ATP-mediated sensitization of dorsal root ganglion (DRG) neurons.[1]
In vivo	Camlipixant (BLU-5937 ; 3-30 mg/kg ; oral) reduces histamine and ATP-induced cough sensitization in guinea pigs.[1] Camlipixant (BLU-5937 ; 10-20 mg/kg ; i.p.) did not alter taste perception compared to control animals.[1] Camlipixant (BLU-5937) exhibits excellent drug-like properties, including good oral bioavailability, low predicted clearance in humans, no blood-brain barrier permeability, and high safety.[1]

Solubility Information

Solubility	DMSO: 22.5 mg/mL (49.08 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 (4.36 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	2.1812 mL	10.9061 mL	21.8122 mL
5 mM	0.4362 mL	2.1812 mL	4.3624 mL
10 mM	0.2181 mL	1.0906 mL	2.1812 mL
50 mM	0.0436 mL	0.2181 mL	0.4362 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

Garceau D, et al. BLU-5937: A selective P2X3 antagonist with potent anti-tussive effect and no taste alteration. *Pulm Pharmacol Ther.* 2019 ; 56:56-62.

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