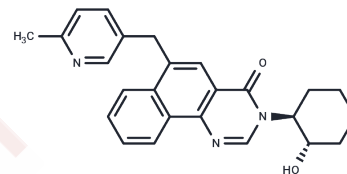


MK-7622

Chemical Properties

CAS No. : 1227923-29-6
 Formula: C₂₅H₂₅N₃O₂
 Molecular Weight: 399.48
 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	MK-7622 (M1 receptor modulator) is a positive allosteric modulator of the muscarinic M1 receptor.
Targets(IC50)	Calcium Channel,AChR

Solubility Information

Solubility	DMSO: 100 mg/mL (250.33 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: 4 mg/mL (10.01 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	2.5033 mL	12.5163 mL	25.0325 mL
5 mM	0.5007 mL	2.5033 mL	5.0065 mL
10 mM	0.2503 mL	1.2516 mL	2.5033 mL
50 mM	0.0501 mL	0.2503 mL	0.5007 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

Kuduk Scott D, et al. Dihydrobenzoquinazolinone M1 receptor positive allosteric modulators. From PCT Int. Appl. (2012), WO 2012047702 A1 20120412.

Kuduk Scott D, et al. Benzoquinazolinone derivatives as M1 receptor positive allosteric modulators and their preparation, pharmaceutical compositions and use in the treatment of diseases. From PCT Int. Appl. (2010), WO 2010059773 A1 20100527.

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