

UNC2881

Chemical Properties

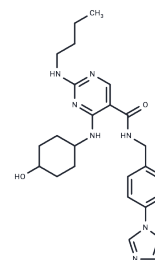
CAS No. : 1493764-08-1

Formula: C₂₅H₃₃N₇O₂

Molecular Weight: 463.58

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	UNC2881 is a specific Mer tyrosine kinase inhibitor (IC ₅₀ : 4.3 nM). It is about 83- and 58-fold higher selectivity than Axl and Tyro3, respectively.
Targets(IC ₅₀)	Influenza Virus,TAM Receptor
In vitro	In mice, UNC2881 exhibits a high total clearance rate (94.5 ml/kg/min), with an oral bioavailability of 14%.
In vivo	UNC2881 inhibits the activity of Mer kinase in 697 B-ALL cells (IC ₅₀ : 22 nM) and suppresses collagen-stimulated platelet aggregation.

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 85 mg/mL (183.36 mM),Sonication is recommended. Ethanol: 5 mg/mL (10.79 mM),Heating 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: 3.3 mg/mL (7.12 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	2.1571 mL	10.7856 mL	21.5712 mL
5 mM	0.4314 mL	2.1571 mL	4.3142 mL
10 mM	0.2157 mL	1.0786 mL	2.1571 mL
50 mM	0.0431 mL	0.2157 mL	0.4314 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

Zhang W, et al. J Med Chem. 2013, 56(23), 9693-9700.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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