

PCSK9-IN-13

Chemical Properties

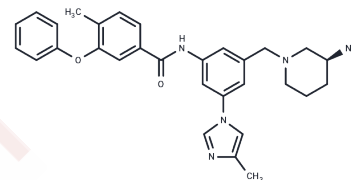
CAS No. : 2244129-23-3

Formula: C30H33N5O2

Molecular Weight: 495.62

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	PCSK9-IN-13 (compound 3f) is a potent PCSK9 inhibitor with an IC50 of 537 nM. It antagonizes the binding of the low-density lipoprotein receptor (LDLR) to PCSK9 by interacting with a cryptic binding groove on the PCSK9 protein. Since PCSK9 normally mediates the degradation of LDLR, this inhibitor helps maintain higher levels of LDLR on the hepatocyte surface, thereby promoting the uptake of circulating LDL-C. It is a valuable tool for researching novel cholesterol-lowering therapies and cardiovascular disease prevention.
Targets(IC50)	Others
In vitro	PCSK9-IN-13 (0.1-1 uM) blocks PCSK9-LDLR interaction and restores LDL uptake in HepG2 cells [1].
In vivo	Daily s.c. PCSK9-IN-13 (16.4 mg/kg) significantly lowered mouse plasma cholesterol (~10%) [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (161.41 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0177 mL	10.0884 mL	20.1767 mL
5 mM	0.4035 mL	2.0177 mL	4.0353 mL
10 mM	0.2018 mL	1.0088 mL	2.0177 mL
50 mM	0.0404 mL	0.2018 mL	0.4035 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

Jinsun Jeong, et al. Pathogen Box screening for hit identification against Mycobacterium abscessus. PLoS One. 2018 Apr 26;13(4):e0195595.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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