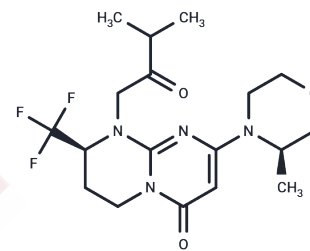


Vps34-IN-2

Chemical Properties

CAS No. :	1523404-29-6
Formula:	C ₁₈ H ₂₅ F ₃ N ₄ O ₃
Molecular Weight:	402.41
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	Vps34-IN-2 is a potent and selective Vps34 inhibitor (IC ₅₀ s: 2 and 82 nM on the Vps34 enzymatic assay and the GFP-FYVE cellular assay, respectively).
Targets(IC ₅₀)	PI3K,SARS-CoV
In vitro	Vps34-IN-2 displays IC ₅₀ s of 2 and 82 nM on the Vps34 enzymatic assay and the GFP-FYVE cellular assay, respectively. Vps34-IN-2 exhibits selectivity against mTOR with IC ₅₀ more than 10 μM and class I PI3Ks with IC ₅₀ values of 2.7, 4.5, 2.5, and >10 μM on PI3K α, β, δ, γ isoforms, respectively.
In vivo	After oral administration (po), Vps34-IN-2 is rapidly absorbed with maximal plasma concentrations observed at 0.5 h and a bioavailability of 85%. Slight rebounds of concentrations are observed at 4 and 8 h after oral dosing with no obvious explanation. After iv injection of Vps34-IN-2 at 3 mg/kg, plasma clearance is found moderate (i.e., 2.3 L/h/kg), corresponding to 44% of hepatic blood flow in this species, volume of distribution at steady state is moderate, and terminal elimination half-life is short.

Solubility Information

Solubility	Ethanol: 50 mg/mL (124.25 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	2.485 mL	12.4251 mL	24.8503 mL
5 mM	0.497 mL	2.485 mL	4.9701 mL
10 mM	0.2485 mL	1.2425 mL	2.485 mL
50 mM	0.0497 mL	0.2485 mL	0.497 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

Pasquier B, et al. Discovery of (2S)-8-[(3R)-3-methylmorpholin-4-yl]-1-(3-methyl-2-oxobutyl)-2-(trifluoromethyl)-3,4-dihydro-2H-pyrimido[1,2-a]pyrimidin-6-one: a novel potent and selective inhibitor of Vps34 for the treatment of solid tumors. *J Med Chem.* 2015 Jan 8;58(1):376-400.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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