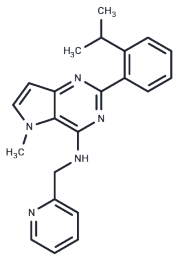
Data Sheet (Cat.No.T72032)

TargetMol

PI5P4Ks-IN-2

Chemical Properties



CAS No. : 2766854-03-7

Formula: C22H23N5

Molecular Weight: 357.45

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	PI5P4Ks-IN-2 is an inhibitor of the phosphatidylinositol 5-phosphate 4-kinase PI5P4Kγ. Targeting the PI5P4K isoforms, PI5P4Ks-IN-2 inhibited PI5P4Kα, PI5P4Kβ, PI5P4Kγ, and PI5P4Kγ+, with IC50 values of <4.3, <4.6, 6.2, and 0.32, respectively.
Targets(IC50)	PI3K
In vitro	PI5P4Ks-IN-2 (10 μM) showed selectivity towards a group of 140 protein kinases and 15 lipid kinases, binding to PI5P4Kγ-WT (Ki=68 nM) or PI5P4Kβ (Ki >30,000 nM).[1]
In vivo	PI5P4Ks-IN-2 (10 μM) showed selectivity towards a group of 140 protein kinases and 15 lipid kinases, binding to PI5P4Kγ-WT (Ki=68 nM) or PI5P4Kβ (Ki >30,000 nM).[1]

Solubility Information

Solubility	DMSO: 27.5 mg/mL (76.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7976 mL	13.988 mL	27.9759 mL
5 mM	0.5595 mL	2.7976 mL	5.5952 mL
10 mM	0.2798 mL	1.3988 mL	2.7976 mL
50 mM	0.056 mL	0.2798 mL	0.5595 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

Boffey HK, et al. Development of Selective Phosphatidylinositol 5-Phosphate 4-Kinase γ Inhibitors with a Non-ATP-competitive, Allosteric Binding Mode. J Med Chem. 2022;65(4):3359-3370.

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