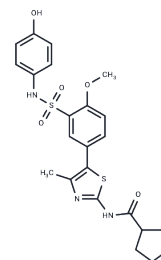


## PI4KIIIbeta-IN-9

## Chemical Properties

CAS No. :	1429624-84-9
Formula:	C23H25N3O5S2
Molecular Weight:	487.59
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	PI4KIIIbeta-IN-9 is a potent inhibitor of PI4KIIIβ [IC50 of 7 nM].
Targets(IC50)	PI3K,PI4K
In vitro	PI4KIIIbeta-IN-9 (Compound 9) exhibits weak inhibition of PI3Kγ (IC50 ~1 μM), PI3Kα (~2 μM), and PI4KIIIα (~2.6 μM), with less than 50% inhibition up to 20 μM for PI4K2α, PI4K2β, and PI3Kβ. It conforms to the active site of PI4KIIIβ, forming extensive contacts, and inhibits PI3Kδ and PI3Kγ with IC50 values of 152 nM and 1046 nM, respectively.

## Solubility Information

Solubility	DMSO: 4.88 mg/mL (10.01 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: 1 mg/mL (2.05 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.0509 mL	10.2545 mL	20.509 mL
5 mM	0.4102 mL	2.0509 mL	4.1018 mL
10 mM	0.2051 mL	1.0255 mL	2.0509 mL
50 mM	0.041 mL	0.2051 mL	0.4102 mL

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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

Rutaganira FU, et al. Design and Structural Characterization of Potent and Selective Inhibitors of Phosphatidylinositol 4 Kinase III $\beta$ . J Med Chem. 2016 Mar 10;59(5):1830-9.

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