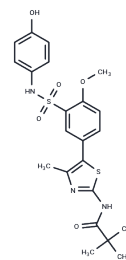


## PI4KIIIbeta-IN-10

## Chemical Properties

CAS No. :	1881233-39-1
Formula:	C <sub>22</sub> H <sub>25</sub> N <sub>3</sub> O <sub>5</sub> S <sub>2</sub>
Molecular Weight:	475.58
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	PI4KIIIbeta-IN-10 is a potent inhibitor of PI4KIIIβ with an IC <sub>50</sub> value of 3.6 nM.
Targets(IC <sub>50</sub> )	PI3K,PI4K
In vitro	The most potent of these molecules (PI4KIIIbeta-IN-10; compound 10) was screened over a panel of nine related lipid kinases and was >200 fold selective for PI4KIIIβ across all enzymes tested. Two of the most potent and selective molecules (compound 9+10) were also the most effective antiviral compounds in a cellular model of Hepatitis C virus replication, with the best balance of antiviral potency and low cellular toxicity. PI4KIIIbeta-IN-10 shows weak inhibition of PI3Kγ (IC <sub>50</sub> ~1 μM), PI3Kα (~10 μM), and PI4KIIIα (~3 μM), and <20% inhibition at concentrations up to 20 μM for PI4K2α, PI4K2β, and PI3Kβ[1].

## Solubility Information

Solubility	DMSO: 30 mg/mL (63.08 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: 2 mg/mL (4.21 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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	1mg	5mg	10mg
1 mM	2.1027 mL	10.5135 mL	21.027 mL
5 mM	0.4205 mL	2.1027 mL	4.2054 mL
10 mM	0.2103 mL	1.0513 mL	2.1027 mL
50 mM	0.0421 mL	0.2103 mL	0.4205 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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