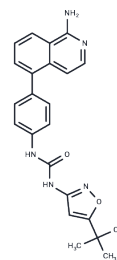


## RIPK1-IN-4

## Chemical Properties

CAS No. :	1481641-08-0
Formula:	C <sub>23</sub> H <sub>23</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	401.46
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	RIPK1-IN-4 is a potent and selective type II kinase receptor interacting protein 1 (RIP1) kinase inhibitor and binds to a DLG-out inactive form of RIP1 (IC50s of 16 nM and 10 nM for RIP1 and ADP-Glo kinase).
Targets(IC50)	RIP kinase

## Solubility Information

Solubility	DMSO: 225 mg/mL (560.45 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: 5 mg/mL (12.45 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

	1mg	5mg	10mg
1 mM	2.4909 mL	12.4545 mL	24.9091 mL
5 mM	0.4982 mL	2.4909 mL	4.9818 mL
10 mM	0.2491 mL	1.2455 mL	2.4909 mL
50 mM	0.0498 mL	0.2491 mL	0.4982 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

Harris PA, et al. Discovery of Small Molecule RIP1 Kinase Inhibitors for the Treatment of Pathologies Associated with Necroptosis. ACS Med Chem Lett. 2013 Nov 4;4(12):1238-43.

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