

UH15-38

## Chemical Properties

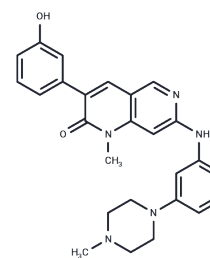
CAS No. : 2540881-21-6

Formula: C<sub>26</sub>H<sub>27</sub>N<sub>5</sub>O<sub>2</sub>

Molecular Weight: 441.53

Storage: Keep away from moisture, Store at low temperature  
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	UH15-38 is a potent and selective RIPK3 inhibitor that blocks necroptosis in alveolar epithelial cells triggered by IAV, useful for studying lung inflammation.
Targets(IC50)	Influenza Virus, Necroptosis, RIP kinase
In vitro	UH15-38 significantly reduces the incidence of necrosis within type I alveolar epithelial cells (AEC), thereby minimizing the pro-inflammatory environment in the lungs. [1]
In vivo	In mouse models of severe IAV infection, UH15-38 significantly inhibited lung damage. By inhibiting RIPK3-MLKL signaling, it reduced the number of necrotic cells within the lung parenchyma, particularly type I AECs, without affecting the frequency of apoptotic cells. [1]

## Solubility Information

Solubility	DMSO: 10.74 mg/mL (24.32 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.07 mg/mL (2.42 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (11.32 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	2.2649 mL	11.3243 mL	22.6485 mL
5 mM	0.453 mL	2.2649 mL	4.5297 mL
10 mM	0.2265 mL	1.1324 mL	2.2649 mL
50 mM	0.0453 mL	0.2265 mL	0.453 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

Gautam A, et al. Necroptosis blockade prevents lung injury in severe influenza. Nature. 2024 Apr;628(8009):835-843.

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