

IMP-1088

## Chemical Properties

CAS No. : 2059148-82-0

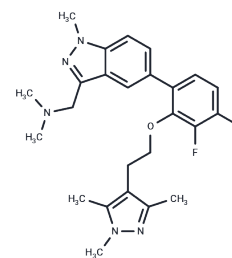
Formula: C<sub>25</sub>H<sub>29</sub>F<sub>2</sub>N<sub>5</sub>O

Molecular Weight: 453.53

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	IMP-1088 is a potent inhibitor of human N-myristoyltransferases NMT1 and NMT2 dual.
Targets(IC <sub>50</sub> )	DNA/RNA Synthesis
In vitro	IMP-1088 (1-1000 nM) inhibits production of infectious virus and single-cycle replication in primary human bronchial epithelial cells (hBEC) infected with rhinovirus RV-A1 (MOI 5) for 7 hours, and remains effective even when administered up to 3 hours post-infection [1]. Additionally, IMP-1088 (500 nM) blocks virus assembly and inhibits production of infectious rhinovirus particles in HeLa cells infected with rhinovirus RV-A16 (MOI 20) for 6 hours[1].

## Solubility Information

Solubility	DMSO: 95 mg/mL (209.47 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: 3.3 mg/mL (7.28 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	2.2049 mL	11.0246 mL	22.0493 mL
5 mM	0.441 mL	2.2049 mL	4.4099 mL
10 mM	0.2205 mL	1.1025 mL	2.2049 mL
50 mM	0.0441 mL	0.2205 mL	0.441 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

Aur lie Mousnier, et al. Fragment-derived Inhibitors of Human N-myristoyltransferase Block Capsid Assembly and Replication of the Common Cold Virus. Nat Chem. 2018 Jun;10(6):599-606.

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