

ML089

## Chemical Properties

CAS No. : 1306638-12-9

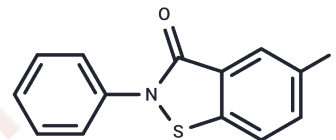
Formula: C<sub>13</sub>H<sub>8</sub>FNOS

Molecular Weight: 245.27

Store at low temperature

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	ML089 (CID-22416235) is an orally available and potent, selective inhibitor of phosphomannose isomerase (PMI), with potential inhibition of other PMI immediate homologs. ML089 is a membrane-permeable probe for the study of congenital dysglycosylation type Ia (CDG-Ia).
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 20 mg/mL (81.54 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (2.04 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	4.0771 mL	20.3857 mL	40.7714 mL
5 mM	0.8154 mL	4.0771 mL	8.1543 mL
10 mM	0.4077 mL	2.0386 mL	4.0771 mL
50 mM	0.0815 mL	0.4077 mL	0.8154 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

Russell Dahl, et al. Potent, selective, and orally available benzoisothiazolone phosphomannose isomerase inhibitors as probes for congenital disorder of glycosylation Ia. J Med Chem. 2011 May 26;54(10):3661-8.

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