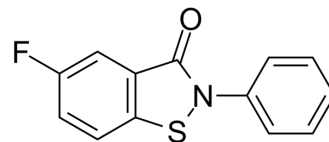


ML089

Cat. No.:	HY-138802
CAS No.:	1306638-12-9
Molecular Formula:	C ₁₃ H ₈ FNOS
Molecular Weight:	245.27
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (101.93 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		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
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 5 mg/mL (20.39 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (10.19 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.54 mg/mL (2.20 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% saline Solubility: 0.54 mg/mL (2.20 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	ML089 is a potent, selective, and orally available phosphomannose isomerase (PMI) inhibitor with an IC ₅₀ of 1.3 μM. ML089 can be used for the research of congenital disorder of glycosylation Ia ^{[1][2]} .
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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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