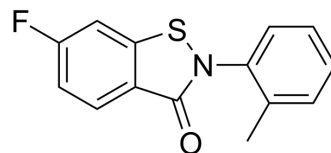


Thr101

Cat. No.:	HY-124890		
CAS No.:	727664-79-1		
Molecular Formula:	C ₁₄ H ₁₀ FNOS		
Molecular Weight:	259.3		
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 : 100 mg/mL (385.65 mM; ultrasonic and warming and heat to 80°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.8565 mL	19.2827 mL	38.5654 mL
		5 mM	0.7713 mL	3.8565 mL	7.7131 mL
10 mM		0.3857 mL	1.9283 mL	3.8565 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 5 mg/mL (19.28 mM); Clear solution; Need ultrasonic and warming and heat to 160°C Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 5 mg/mL (19.28 mM); Clear solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	Thr101 is an inhibitor (IC ₅₀ =2.9 μM) of phosphomannose isomerase (PMI). PMI can compete with phosphomannose mutase 2 (PMM2) for the binding site of Man-6-P and convert mannose-6-phosphate (Man-6-P) into fructose-6-phosphate (Fru-6-P). Thr101 only specifically inhibits PMI and not PMM2. Thr101 can be used for research of congenital disorder of glycosylation type Ia (CDG-Ia) ^[1] .
IC₅₀ & Target	ic50: 2.9 μM (Phosphomannose isomerase, PMI) ^[1]

REFERENCES

[1]. Dahl R, 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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