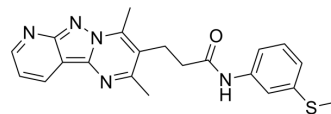


Pantothenate kinase-IN-2

Cat. No.:	HY-44170		
CAS No.:	902614-04-4		
Molecular Formula:	C ₂₁ H ₂₁ N ₅ O ₅		
Molecular Weight:	391.49		
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 : 12.5 mg/mL (31.93 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5543 mL	12.7717 mL	25.5434 mL
		5 mM	0.5109 mL	2.5543 mL	5.1087 mL
10 mM		0.2554 mL	1.2772 mL	2.5543 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (3.19 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Pantothenate kinase-IN-2 is a potent Pantothenate kinase 1/3 (PanK1/3) inhibitor with an IC ₅₀ of 0.14 μM and 0.36 μM. Pantothenate kinase-IN-2 is a promising agent for PKAN (PanK-associated neurodegeneration) and diabetes research ^[1] .
IC ₅₀ & Target	IC ₅₀ : 0.14 μM (PanK1); 0.36 μM (PanK3) ^[1]

REFERENCES

[1]. Lalit Kumar Sharma, et al. A high-throughput screen reveals new small-molecule activators and inhibitors of pantothenate kinases. *J Med Chem.* 2015 Feb 12;58(3):1563-8.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA