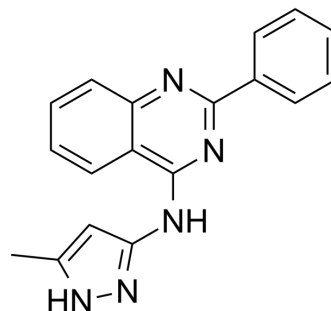


GSK-3 Inhibitor XIII

Cat. No.:	HY-112392		
CAS No.:	404828-14-4		
Molecular Formula:	C ₁₈ H ₁₅ N ₅		
Molecular Weight:	301.35		
Target:	GSK-3		
Pathway:	PI3K/Akt/mTOR; Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (331.84 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	3.3184 mL	16.5920 mL	33.1840 mL
			5 mM	0.6637 mL	3.3184 mL	6.6368 mL
			10 mM	0.3318 mL	1.6592 mL	3.3184 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: ≥ 2.5 mg/mL (8.30 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	GSK-3 Inhibitor XIII is a potent and ATP-competitive GSK-3 inhibitor with a K _i of 24 nM ^{[1][1][2]} .
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REFERENCES

[1]. Albert C Pierce, et al. CH...O and CH...N hydrogen bonds in ligand design: a novel quinazolin-4-ylthiazol-2-ylamine protein kinase inhibitor. J Med Chem. 2005 Feb 24;48(4):1278-81.

[2]. Eduardo Cruz Moraes, et al. Kinase inhibitor profile for human nek1, nek6, and nek7 and analysis of the structural basis for inhibitor specificity. Molecules. 2015 Jan 13;20(1):1176-91.

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

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