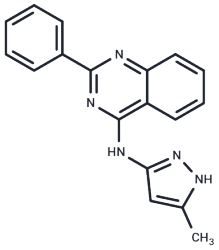
Data Sheet (Cat.No.T78578)

TargetMol

GSK-3 Inhibitor XIII

Chemical Properties



CAS No. : 404828-14-4

Formula: C18H15N5

Molecular Weight: 301.35

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	GSK-3 Inhibitor XIII, an ATP-competitive GSK-3 inhibitor (Ki: 24 nM), can be used to study diabetes and obesity.
Targets(IC50)	GSK-3

Solubility Information

Solubility	DMSO: 80 mg/mL (265.47 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (10.95 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3184 mL	16.592 mL	33.184 mL
5 mM	0.6637 mL	3.3184 mL	6.6368 mL
10 mM	0.3318 mL	1.6592 mL	3.3184 mL
50 mM	0.0664 mL	0.3318 mL	0.6637 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

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.

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.

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