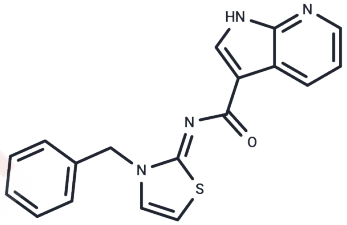
Data Sheet (Cat.No.T9053)

TargetMol

Lats-IN-1

Chemical Properties



CAS No. : 1424635-83-5

Formula: C18H14N4OS

Molecular Weight: 334.39

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	Lats-IN-1 is a potent and ATP-competitive Lats1 and Lats2 kinases inhibitor. It promotes Yap-dependent proliferation in postmitotic mammalian tissues.
Targets(IC50)	YAP

Solubility Information

Solubility	DMSO: 83.33 mg/mL (249.2 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 (9.87 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	2.9905 mL	14.9526 mL	29.9052 mL
5 mM	0.5981 mL	2.9905 mL	5.981 mL
10 mM	0.2991 mL	1.4953 mL	2.9905 mL
50 mM	0.0598 mL	0.2991 mL	0.5981 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

Nathaniel Kastan, et al. Small-molecule inhibition of Lats kinases promotes Yap-dependent proliferation in postmitotic mammalian tissues. bioRxiv 2020.02.11.944157.

Gao Y, Han W, Dong R, et al.Efficient Reprogramming of Mouse Embryonic Stem Cells into Trophoblast Stem-like Cells via Lats Kinase Inhibition.Biology.2024, 13(2): 71.