

RMM-46

Chemical Properties

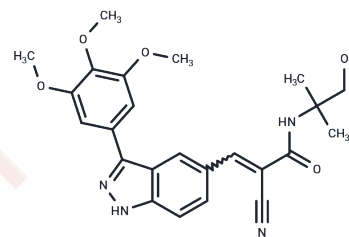
CAS No. : 1307896-46-3

Formula: C₂₄H₂₆N₄O₅

Molecular Weight: 450.49

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	RMM-46 is a reversible covalent inhibitor with high ligand efficiency and selectivity for MSK/RSK family kinases.
Targets(IC50)	MAPK
In vitro	RMM-46 is a reversible covalent inhibitor that exhibits high ligand efficiency and selectivity for MSK/RSK family kinases. At nanomolar concentrations, RMM-46 blocked activation of cellular MSK and RSK, as well as downstream phosphorylation of key transcription factor CREB. RMM-46 inhibits MSK1 CTD activity and CREB phosphorylation with IC50 of ~100 nM and ~300 nM, respectively. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2198 mL	11.099 mL	22.1981 mL
5 mM	0.444 mL	2.2198 mL	4.4396 mL
10 mM	0.222 mL	1.1099 mL	2.2198 mL
50 mM	0.0444 mL	0.222 mL	0.444 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

Miller RM, et al. Electrophilic fragment-based design of reversible covalent kinase inhibitors. J Am Chem Soc. 2013 Apr 10;135(14):5298-301.

Bian Y, Shan G, Bi G, et al. Targeting ALDH1A1 to enhance the efficacy of KRAS-targeted therapy through ferroptosis. Redox Biology. 2024: 103361.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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