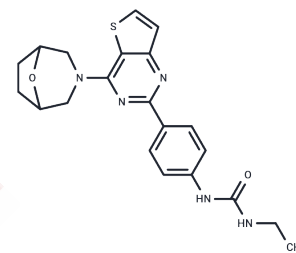


mTOR inhibitor 9b

Chemical Properties

CAS No. :	1144075-34-2
Formula:	C ₂₁ H ₂₃ N ₅ O ₂ S
Molecular Weight:	409.5
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	mTOR inhibitor 9b is an enzyme inhibitor of protein kinase mTOR he phosphatidylinositol 3-kinase PIK3CA with IC ₅₀ s of 0.76 nm and 1.262 μM, respectively.mTOR inhibitor 9b possesses anticancer activity and can be used to study leukemia, skin, breast, lung and colon cancers.
Targets(IC ₅₀)	mTOR,PI3K

Solubility Information

Solubility	DMSO: 15 mg/mL (36.63 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.442 mL	12.210 mL	24.420 mL
5 mM	0.4884 mL	2.442 mL	4.884 mL
10 mM	0.2442 mL	1.221 mL	2.442 mL
50 mM	0.0488 mL	0.2442 mL	0.4884 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

Verheijen JC, et al. Discovery of 2-arylthieno[3,2-d]pyrimidines containing 8-oxa-3-azabi-cyclo[3.2.1]octane in the 4-position as potent inhibitors of mTOR with selectivity over PI3K. Bioorg Med Chem Lett. 2010;20(1):375-379.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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