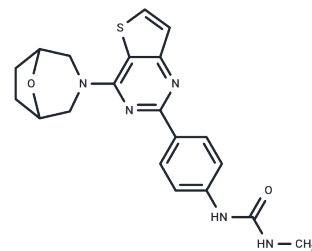


mTOR inhibitor 9a

Chemical Properties

CAS No. :	1144075-32-0
Formula:	C ₂₀ H ₂₁ N ₅ O ₂ S
Molecular Weight:	395.48
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	mTOR inhibitor 9a inhibited the growth of human LNCap cells with an ic ₅₀ of 80 nm. 1-methyl-3-{4-[4-(8-oxa-3-azabicyclo[3.2.1]oct-3-yl)thieno[3,2-d]pyrimidin-2-yl]phenyl}urea may have antitumor activity.
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Solubility Information

Solubility	DMSO: 12 mg/mL (30.34 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	2.5286 mL	12.6429 mL	25.2857 mL
5 mM	0.5057 mL	2.5286 mL	5.0571 mL
10 mM	0.2529 mL	1.2643 mL	2.5286 mL
50 mM	0.0506 mL	0.2529 mL	0.5057 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.

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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