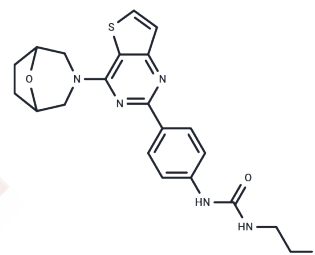


mTOR inhibitor 9c

Chemical Properties

CAS No. :	1144075-36-4
Formula:	C ₂₁ H ₂₂ FN ₅ O ₂ S
Molecular Weight:	427.5
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 9c is a selective mTOR inhibitor with IC ₅₀ of 0.7nM and 825nM for mTOR and PI3K α , respectively.
Targets(IC ₅₀)	mTOR,PI3K
In vitro	mTOR inhibitor 9c inhibits the growth of LNCaP cell with IC ₅₀ of 87nM[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (140.35 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	2.3392 mL	11.6959 mL	23.3918 mL
5 mM	0.4678 mL	2.3392 mL	4.6784 mL
10 mM	0.2339 mL	1.1696 mL	2.3392 mL
50 mM	0.0468 mL	0.2339 mL	0.4678 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, Yu K, Toral-Barza L, Hollander I, Zask A. 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 Jan 1;20(1):375-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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