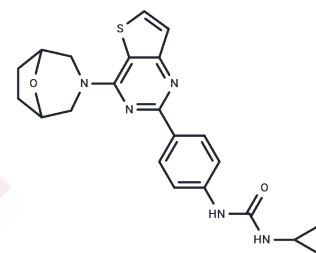


mTOR inhibitor 9e

Chemical Properties

CAS No. :	1144075-40-0
Formula:	C ₂₂ H ₂₃ N ₅ O ₂ S
Molecular Weight:	421.52
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 9e is a selective mTOR inhibitor with IC ₅₀ of 0.68nM and 1359nM for mTOR and PI3K α , respectively.
Targets(IC ₅₀)	mTOR,PI3K
In vitro	mTOR inhibitor 9e inhibits the growth of LNCaP cell with IC ₅₀ of 40nM[1].

Solubility Information

Solubility	DMSO: 1 mg/mL (2.37 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	2.3724 mL	11.8618 mL	23.7237 mL
5 mM	0.4745 mL	2.3724 mL	4.7447 mL
10 mM	0.2372 mL	1.1862 mL	2.3724 mL
50 mM	0.0474 mL	0.2372 mL	0.4745 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 Jan 1;20(1):375-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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