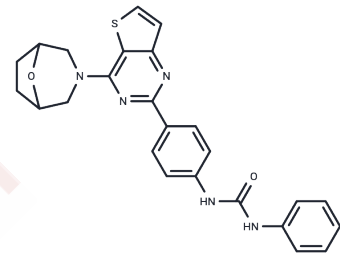


mTOR inhibitor 9f

Chemical Properties

CAS No. :	1144075-42-2
Formula:	C ₂₅ H ₂₃ N ₅ O ₂ S
Molecular Weight:	457.55
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 9f is a selective mTOR inhibitor with IC ₅₀ of 1.25nM and 82nM for mTOR and PI3K α , respectively.
Targets(IC ₅₀)	mTOR,PI3K
In vitro	mTOR inhibitor 9f inhibits the growth of LNCaP cell with IC ₅₀ of 140nM[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (98.35 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1856 mL	10.9278 mL	21.8555 mL
5 mM	0.4371 mL	2.1856 mL	4.3711 mL
10 mM	0.2186 mL	1.0928 mL	2.1856 mL
50 mM	0.0437 mL	0.2186 mL	0.4371 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481