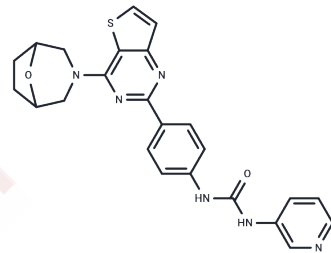


## mTOR inhibitor 13

## Chemical Properties

CAS No. :	1144075-44-4
Formula:	C <sub>24</sub> H <sub>22</sub> N <sub>6</sub> O <sub>2</sub> S
Molecular Weight:	458.54
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 13 is a selective mTOR inhibitor with IC <sub>50</sub> of 0.29nM and 119nM for mTOR and PI3K $\alpha$ , respectively.
Targets(IC <sub>50</sub> )	mTOR,PI3K
In vitro	mTOR inhibitor 13 inhibits the growth of LNCaP cell with IC <sub>50</sub> of 27nM[1].

## Solubility Information

Solubility	DMSO: 45 mg/mL (98.14 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	2.1808 mL	10.9042 mL	21.8083 mL
5 mM	0.4362 mL	2.1808 mL	4.3617 mL
10 mM	0.2181 mL	1.0904 mL	2.1808 mL
50 mM	0.0436 mL	0.2181 mL	0.4362 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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