Data Sheet (Cat.No.T22339)

TargetMol

GNE-490

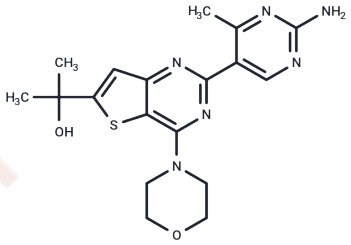
Chemical Properties

CAS No. : 1033739-92-2

Formula: C18H22N6O2S

Molecular Weight: 386.47

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	GNE-490 is an effective inhibitor of pan-PI3K with IC50s of 3.5 nM, 25 nM, 5.2 nM, 15 nM for PI3Kα, PI3Kβ, PI3Kδ and PI3Kγ, respectively. GNE-490 has >200 fold selectivity for mTOR (IC50 = 750 nM).
Targets(IC50)	mTOR,PI3K

Solubility Information

Solubility	DMSO: 50 mg/mL (129.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5875 mL	12.9376 mL	25.8752 mL
5 mM	0.5175 mL	2.5875 mL	5.175 mL
10 mM	0.2588 mL	1.2938 mL	2.5875 mL
50 mM	0.0518 mL	0.2588 mL	0.5175 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

Daniel P Sutherlin, et al. Discovery of (thienopyrimidin-2-yl)aminopyrimidines as potent, selective, and orally available pan-PI3-kinase and dual pan-PI3-kinase/mTOR inhibitors for the treatment of cancer. J Med Chem. 2010 Feb 11;53(3):1086-97.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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