Data Sheet (Cat.No.T6030)



XL388

Chemical Propert		
CAS No. :	1251156-08-7	
Formula:	C23H22FN3O4S	
Molecular Weight:	455.5 e H ₂ N	
Appearance:	no data available	
Storage: Powder: -20°C for 3 years In solvent: -80°C for 1 year		

Biological Description

Description	XL388 is a highly effective, specifc, ATP-competitive inhibitor of mTOR (IC50: 9.9 nM), 1000-fold selectivity than the closely related PI3K kinases.
Targets(IC50)	P450,PI3K,mTOR
Kinase Assay	Determination of Enzyme IC50 Values: IC50 values are determined using a 10 concentration point, non-radioactive, functional assay that employs a fluorescence- based, coupled-enzyme format, according to the manufacturer's protocol (Z'- LYTE@biochemical assay). Kinase selectivity is determined using both the Z'-LYTE@ and Adapta@ kinase assay format.

Solubility Information	
Solubility	H2O: <1 mg/mL (insoluble or slightly soluble), br/>DMSO: 22 mg/mL (48.3 mM), Ethanol: <1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

X0	1mg	5mg	10mg
1 mM	2.1954 mL	10.9769 mL	21.9539 mL
5 mM	0.4391 mL	2.1954 mL	4.3908 mL
10 mM	0.2195 mL	1.0977 mL	2.1954 mL
50 mM	0.0439 mL	0.2195 mL	0.4391 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.

Reference

Wang Z, Feng J, Yu J, et al. FKBP12 mediates necroptosis by initiating RIPK1-RIPK3-MLKL signal transduction in response to TNF receptor 1 ligation. Journal of Cell Science. 2019, 132(10): jcs227777

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