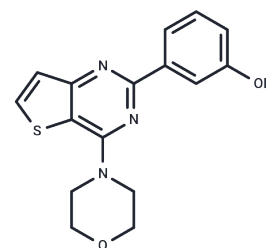


PI3-Kinase α Inhibitor 2

Chemical Properties

CAS No. : 371943-05-4
 Formula: C₁₆H₁₅N₃O₂S
 Molecular Weight: 313.37
 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	Phosphatidylinositol 3-kinase (PI3K) catalyzes the phosphorylation of the 3' hydroxyl position of PIs to produce the second messengers PtdIns-(3,4)-P ₂ and PtdIns-(3,4,5)-P ₃ . PI3K α , β , and δ are class 1A enzymes composed of p110 and p85 subunits, whereas PI3K γ is a class 1B PI3K composed of a p110 catalytic subunit and a p101 or p84 regulatory subunit. PI3K α inhibitor 2 is a selective inhibitor of PI3K α with IC ₅₀ values of 2, 16, 660, and 220 nM for the α , β , γ , and 2C β isoforms, respectively. It inhibits PKA, KDR, PKC α , and cyclin E/Cdk2 significantly less effectively (IC ₅₀ = 91, 3.4, 466, and 28 μ M, respectively). PI3K α inhibitor 2 inhibits A375 melanoma cell proliferation with an IC ₅₀ value of 580 nM.
Targets(IC ₅₀)	Others,mTOR,PI3K

Solubility Information

Solubility	DMSO: 25 mg/mL (79.78 mM),Sonication is recommended. DMF:PBS(pH 7.2) (1:3): 0.25 mg/mL (0.8 mM),Sonication is recommended. DMF: 30 mg/mL (95.73 mM),Sonication is recommended. Ethanol: 1 mg/mL (3.19 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	3.1911 mL	15.9556 mL	31.9112 mL
5 mM	0.6382 mL	3.1911 mL	6.3822 mL
10 mM	0.3191 mL	1.5956 mL	3.1911 mL
50 mM	0.0638 mL	0.3191 mL	0.6382 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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