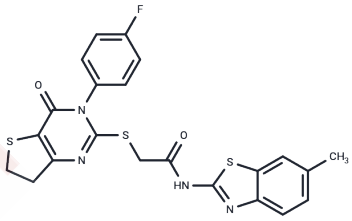
Data Sheet (Cat.No.T21650)

TargetMol

IWP-3

Chemical Properties



CAS No. : 687561-60-0

Formula: C22H17FN4O2S3

Molecular Weight: 484.59

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	IWP-3 is a potent inhibitor of Wnt production with an IC50 of 40 nM. It inhibits Porcupine (Porcn), blocking the palmitoylation of Wnt proteins, and moderately inhibits CK1γ3 and CK1ε, but does not inhibit CK1α [1] [2].
Targets(IC50)	Wnt/beta-catenin

Solubility Information

Solubility	DMSO: 15 mg/mL (30.95 mM),Sonification is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0636 mL	10.318 mL	20.636 mL
5 mM	0.4127 mL	2.0636 mL	4.1272 mL
10 mM	0.2064 mL	1.0318 mL	2.0636 mL
50 mM	0.0413 mL	0.2064 mL	0.4127 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

Baozhi Chen, et al. Small molecule-mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer. Nat Chem Biol. 2009 Feb;5(2):100-7.

Balbina García-Reyes, et al. Discovery of Inhibitor of Wnt Production 2 (IWP-2) and Related Compounds As Selective ATP-Competitive Inhibitors of Casein Kinase 1 (CK1) δ/ε. J Med Chem. 2018 May 10;61(9):4087-4102.

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