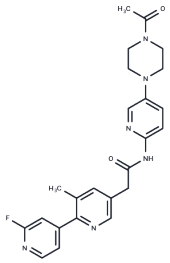
Data Sheet (Cat.No.T11444)

TargetMol

GNF-6231

Chemical Properties



CAS No. : 1243245-18-2

Formula: C24H25FN6O2

Molecular Weight: 448.49

Storage: Store at low temperature
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	GNF-6231 is a potent, selective, and orally bioavailable Porcupine inhibitor that blocks Wnt signaling.
Targets(IC50)	Porcupine,Wnt/beta-catenin
In vitro	GNF-6231 shows IC50s of greater than 10 μM on all CYP isoforms tested[1].
In vivo	GNF-6231 has favorable potency and a PK profile across preclinical species upon oral administration. The reference for orally in MMTV-Wnt1 tumor-bearing mice is dosed at 3 mg/kg. GNF-6231 showed very robust dose-related antitumor efficacy[1].

Solubility Information

Solubility	DMSO: 36 mg/mL (80.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.5 mg/mL (5.57 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2297 mL	11.1485 mL	22.297 mL
5 mM	0.4459 mL	2.2297 mL	4.4594 mL
10 mM	0.223 mL	1.1149 mL	2.2297 mL
50 mM	0.0446 mL	0.223 mL	0.4459 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

Cheng D et al. Discovery of Pyridinyl Acetamide Derivatives as Potent, Selective, and Orally Bioavailable Porcupine Inhibitors. ACS Med Chem Lett. 2016 May 10;7(7):676-80.