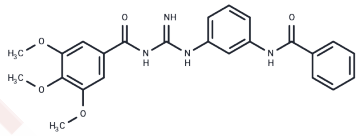
Data Sheet (Cat.No.T9531)

MRT-14

Chemical Properties



CAS No. : 1263131-83-4

Formula: C24H24N4O5

Molecular Weight: 448.47

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	MRT-14 is a potent Smo antagonist and can be used in several types of cancers linked to abnormal Hh signaling studies.
Targets(IC50)	Smo

Solubility Information

Solubility	DMSO: 50 mg/mL (111.49 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 mg/mL (4.46 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	2.2298 mL	11.149 mL	22.298 mL
5 mM	0.446 mL	2.2298 mL	4.4596 mL
10 mM	0.223 mL	1.1149 mL	2.2298 mL
50 mM	0.0446 mL	0.223 mL	0.446 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

Manetti F, et al. Virtual screening-based discovery and mechanistic characterization of the acylthiourea MRT-10 family as smoothened antagonists. Mol Pharmacol. 2010;78(4):658-665.

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