

MRT-10

Chemical Properties

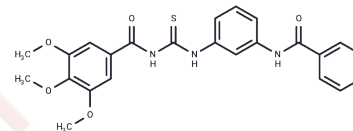
CAS No. : 330829-30-6

Formula: C₂₄H₂₃N₃O₅S

Molecular Weight: 465.52

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-10 is a Smoothed (Smo) receptor antagonist.
Targets(IC50)	Hedgehog/Smoothed,Smo

Solubility Information

Solubility	DMSO: 40 mg/mL (85.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.3 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1481 mL	10.7407 mL	21.4814 mL
5 mM	0.4296 mL	2.1481 mL	4.2963 mL
10 mM	0.2148 mL	1.0741 mL	2.1481 mL
50 mM	0.043 mL	0.2148 mL	0.4296 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

Solinas et al (2012) Acylthiourea, acylurea, and acylguanidine derivatives with potent hedgehog inhibiting activity. J.Med.Chem. 55 1559

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