

SMO-IN-2

Chemical Properties

CAS No. : 1822355-27-0

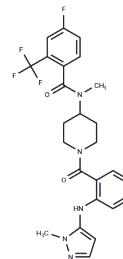
Formula: C₂₅H₂₅F₄N₅O₂

Molecular Weight: 503.49

Store at low temperature

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	SMO-IN-2 is a potent smoothened (SMO) inhibitor of hedgehog (Hh) signaling. SMO-IN-2 shows antiproliferative activity and anticancer activity against human medulloblastoma cell lines. SMO-IN-2 can be used in the study of cancer.
Targets(IC50)	Hedgehog/Smoothened, Smo
In vitro	Compound 1, also known as SMO-IN-2, exhibits antiproliferative activity against the human medulloblastoma cell line Daoy, with an IC ₅₀ of 0.51 μM[1].

Solubility Information

Solubility	DMSO: 7.14 mg/mL (14.18 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: 1 mg/mL (1.99 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	1.9861 mL	9.9307 mL	19.8614 mL
5 mM	0.3972 mL	1.9861 mL	3.9723 mL
10 mM	0.1986 mL	0.9931 mL	1.9861 mL
50 mM	0.0397 mL	0.1986 mL	0.3972 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

Ji D, et al. Design, synthesis and biological evaluation of anthranilamide derivatives as potent SMO inhibitors. *Bioorg Med Chem.* 2020 Mar 15;28(6):115354.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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