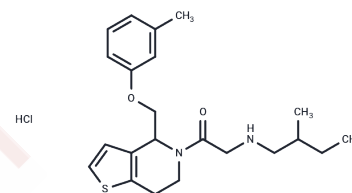


RU-SKI 43 Hydrochloride

Chemical Properties

CAS No. : 1782573-67-4
 Formula: C₂₂H₃₁ClN₂O₂S
 Molecular Weight: 423.01
 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	RU-SKI 43 Hydrochloride is a potent and selective inhibitor of Hedgehog acyltransferase (Hhat), with an IC ₅₀ value of 850 nM. RU-SKI 43 Hydrochloride has been reported to possess anticancer activity, making it a useful compound for investigating Hedgehog signaling in tumor biology.
Targets(IC ₅₀)	Others,Hedgehog/Smoothened,Acyltransferase
In vitro	Method: AsPC-1 cells were treated with RU-SKI 43 Hydrochloride (10 μM, 72 hours), and Gli-1 mRNA levels were detected by qRT-PCR. Result: RU-SKI 43 Hydrochloride reduced Gli-1 levels in AsPC-1 cells by 40%. [2]
In vivo	After IV administration,RU-SKI 43 Hydrochloride has a t _{1/2} of 17 min in mouse plasma. [1]

Solubility Information

Solubility	DMSO: ≥ 40 mg/mL,Sonication is recommended. H ₂ O: 2 mg/mL (4.73 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 (4.73 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	2.364 mL	11.8201 mL	23.6401 mL
5 mM	0.4728 mL	2.364 mL	4.728 mL
10 mM	0.2364 mL	1.182 mL	2.364 mL
50 mM	0.0473 mL	0.2364 mL	0.4728 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

Petrova E, et al. Inhibitors of Hedgehog acyltransferase block Sonic Hedgehog signaling. *Nat Chem Biol.* 2013 Apr; 9(4):247-9.

Petrova E, et al. Hedgehog acyltransferase as a target in pancreatic ductal adenocarcinoma. *Oncogene.* 2014 Jan 27. doi: 10.1038/onc.2013.575

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