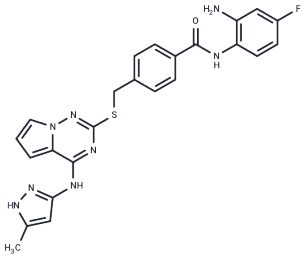
Data Sheet (Cat.No.T63260)

TargetMol

Snail/HDAC-IN-1

Chemical Properties



CAS No. : 2415281-52-4

Formula: C24H21FN8OS

Molecular Weight: 488.54

Storage: Keep away from direct sunlight
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	Snail/HDAC-IN-1 is a Snail/HDAC inhibitor with antimicrobial and anticancer activity, known to reduce Snail protein expression and induce apoptosis, making it useful for the study of solid tumors.
Targets(IC50)	Apoptosis,HDAC,Antifungal
In vitro	Snail/HDAC-IN-1 exhibited the most potent inhibitory activity against HDAC1 with an IC50 of 0.405 μM, potent inhibition against Snail with a Kd of 0.180 μM, and antiproliferative activity in HCT-116 cell lines with an IC50 of 0.0751 μM. Snail/HDAC-IN-1 showed good inhibitory effects on NCI-H522 (GI50 = 0.0488 μM), MDA-MB-435 (GI50 = 0.0361 μM), and MCF7 (GI50 = 0.0518 μM)[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (204.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (6.75 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	2.0469 mL	10.2346 mL	20.4692 mL
5 mM	0.4094 mL	2.0469 mL	4.0938 mL
10 mM	0.2047 mL	1.0235 mL	2.0469 mL
50 mM	0.0409 mL	0.2047 mL	0.4094 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

Cui H, et al. Design and synthesis of dual inhibitors targeting snail and histone deacetylase for the treatment of solid tumour cancer. Eur J Med Chem. 2022;229:114082.