

Pan-RAS-IN-2

Chemical Properties

CAS No. :	3034673-92-9
Formula:	C46H60N8O5S
Molecular Weight:	837.08
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Pan-RAS-IN-2 (compound 6A) is an orally active molecular glue that targets RAS by inducing ternary complex formation with cyclophilin A (CYPA) and RAS in the ON state, leading to potent inhibition of downstream RAF binding and pERK signaling with an IC50 of 0.3 nM in AsPC-1 cells, Pan-RAS-IN-2 demonstrates strong antiproliferative effects in RAS-mutant cancer cell lines, supporting research into targeted therapies for colorectal and pancreatic cancers.
Targets(IC50)	Ras
In vitro	In AsPC-1 pancreatic cancer cells, Pan-RAS-IN-2 potently inhibited pERK levels with an IC50 of 0.3 nM. The compound demonstrated significant antiproliferative activity across a broad spectrum of RAS-mutant cancer cell lines, including those harboring KRAS G12D, G12V, and G12C mutations [1].
In vivo	Pan-RAS-IN-2 exhibited robust antitumor efficacy in mouse xenograft models of RAS-driven cancers, such as colorectal and pancreatic cancer. Oral administration of Pan-RAS-IN-2 resulted in the significant inhibition of tumor growth [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (95.57 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1946 mL	5.9731 mL	11.9463 mL
5 mM	0.2389 mL	1.1946 mL	2.3893 mL
10 mM	0.1195 mL	0.5973 mL	1.1946 mL
50 mM	0.0239 mL	0.1195 mL	0.2389 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

Y Zhang, et al. Macrocyclic derivative and use thereof. WO2024067857A1. 2023-09-28

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