

SOS1-IN-15

Chemical Properties

CAS No. : 2793404-47-2

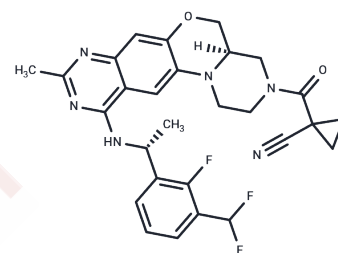
Formula: C₂₈H₂₇F₃N₆O₂

Molecular Weight: 536.548

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	SOS1-IN-15 is an orally active and potent SOS1 inhibitor with potential antitumor activity. SOS1-IN-15 is used in the study of colon cancer.
Targets(IC50)	Raf,Ras
In vitro	In Mia-paca-2 pancreatic cancer cells, SOS1-IN-15 (0.1 nM-0.1 mM; 72 hours) inhibited cell proliferation with an IC ₅₀ of 178 ± 42 nM[1].
In vivo	In BALB/c nude mice bearing Mia-paca-2 pancreatic tumors, SOS1-IN-15 (50 mg/kg; oral administration, daily for 22 days) showed 49% tumor inhibition. No animal mortality and significant difference in the mice's body weight were observed during the study period[1].

Solubility Information

Solubility	DMSO: 2 mg/mL (3.73 mM), Sonification 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	1.8638 mL	9.3188 mL	18.6376 mL
5 mM	0.3728 mL	1.8638 mL	3.7275 mL
10 mM	0.1864 mL	0.9319 mL	1.8638 mL
50 mM	0.0373 mL	0.1864 mL	0.3728 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

Zhang S, et al. Design and Structural Optimization of Orally Bioavailable SOS1 Inhibitors for the Treatment of KRAS-Driven Carcinoma. J Med Chem. 2022 Nov 17.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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