

SIAIS562055

Chemical Properties

CAS No. :

Formula: C49H62F3N7O5S

Molecular Weight: 918.12

Keep away from direct sunlight

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	SIAIS562055, a potent cereblon-based SOS1PROTAC, exhibits a dissociation constant (Kd) of 95.9 nM. It effectively degrades SOS1 and inhibits the downstream ERK pathway. SIAIS562055 disrupts the interaction between KRASG12C or KRASG12D and SOS1, with IC50 values of 95.7 nM and 134.5 nM, respectively. This compound demonstrates strong anticancer activity.
Targets(IC50)	PROTACs,Ras
In vitro	SIAIS562055 (10-1000 nM; 24 hours) consistently demonstrates the degradation of SOS1 and the inhibition of the downstream ERK pathway, exhibiting excellent antiproliferative activity.
In vivo	SIAIS562055 administered at a dosage of 20-50 mg/kg via intraperitoneal injection daily for a continuous duration of three weeks demonstrated significant antitumor efficacy in xenografts bearing KRAS mutations.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0892 mL	5.4459 mL	10.8918 mL
5 mM	0.2178 mL	1.0892 mL	2.1784 mL
10 mM	0.1089 mL	0.5446 mL	1.0892 mL
50 mM	0.0218 mL	0.1089 mL	0.2178 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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