

SK-575

## Chemical Properties

CAS No. : 2523016-96-6

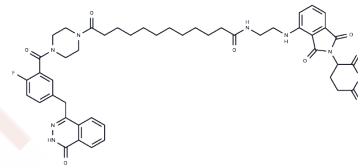
Formula: C47H53FN8O8

Molecular Weight: 876.97

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	SK-575 is a degradation agent targeting protein-hydrolyzed PARP1 chimera with anticancer and antitumor activity. SK-575 effectively inhibits the growth of cancer cells harboring BRCA1/2 mutations and selectively induces PARP1 degradation in cancer cells.
Targets(IC50)	PARP, PROTACs
In vitro	In MDA-MB-436, Capan-1, and SW620 cells, SK-575 (10000, 1000, 300, 100, 30, 10, 3, 1, 0.3, 0.1, 0.03, and 0.01 nM; 24 hours) exhibited significant PARP1 degradation activity, with IC50 values of 1.26, 6.72, and 0.509 nM, respectively[1].
In vivo	In male BALB/c nude mice bearing xenograft Capan-1 tumors, SK-575 (25 mg/kg, 50 mg/kg; intraperitoneal injection, once daily for 5 consecutive days) inhibited tumor growth. These doses of SK-575 (25 and 50 mg/kg) were well tolerated, with no observed mouse lethality or significant weight loss during the treatment period[1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (91.22 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.1403 mL	5.7014 mL	11.4029 mL
5 mM	0.2281 mL	1.1403 mL	2.2806 mL
10 mM	0.114 mL	0.5701 mL	1.1403 mL
50 mM	0.0228 mL	0.114 mL	0.2281 mL

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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

Cao C, et al. Discovery of SK-575 as a Highly Potent and Efficacious Proteolysis-Targeting Chimera Degradator of PARP1 for Treating Cancers. J Med Chem. 2020 Oct 8;63(19):11012-11033.

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