

SMD-3040

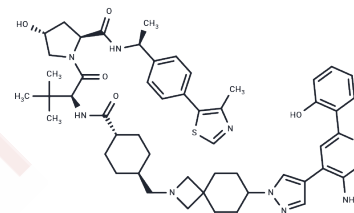
## Chemical Properties

CAS No. : 3033109-92-8

Formula: C52H66N10O5S

Molecular Weight: 943.21

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	SMD-3040 is a potent and selective SMARCA2 PROTAC degrader that achieves efficient target protein elimination with a DC50 of 12 nM and a Dmax of 91%, leading to robust inhibition of tumor cell proliferation and pronounced antitumor activity, and is enabled by rational assembly of a SMARCA2/4 ligand and a VHL ligand, supporting its application in melanoma and broader oncology research.
Targets(IC50)	Epigenetic Reader Domain, PROTACs
In vitro	In proliferation assays utilizing SMARCA4-deficient cancer cell lines (specifically SK-Mel-5, H838, and A549), SMD-3040 was administered over a 7-day treatment period. The compound exhibited potent antiproliferative effects with GI50 values ranging from 8.8 to 119 nM [1].
In vivo	To evaluate antitumor efficacy in a physiological context, a mouse model harboring human melanoma xenografts was employed. SMD-3040 was administered intravenously at dosages ranging from 25 to 50 mg/kg, following a schedule of twice-weekly injections for a duration of two weeks. This treatment regimen led to a significant suppression of tumor growth in the xenograft model [1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (84.82 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	1.0602 mL	5.301 mL	10.6021 mL
5 mM	0.212 mL	1.0602 mL	2.1204 mL
10 mM	0.106 mL	0.5301 mL	1.0602 mL
50 mM	0.0212 mL	0.106 mL	0.212 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

Yang L, et. al. Discovery of SMD-3040 as a Potent and Selective SMARCA2 PROTAC Degradar with Strong in vivo Antitumor Activity. J Med Chem. 2023 Jul 31.

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