Data Sheet (Cat.No.T77967)

TargetMol

MS159

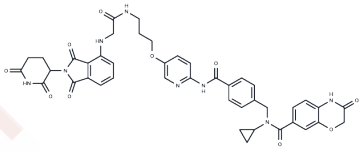
Chemical Properties

CAS No. : 3031353-59-7

Formula: C43H40N8O10

Molecular Weight: 828.83

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	MS159 is a potent PROTAC degrader targeting the nuclear receptor binding SET structural domain protein 2 (NSD2), which inhibits tumor cell growth. This compound serves as a valuable chemical tool for investigating NSD2's function in health and disease [1].
Targets(IC50)	PROTACs
In vitro	MS159, administered at concentrations ranging from 0.5 to 10 μM over 48 hours, triggers the time- and dose-dependent degradation of NSD2 protein in 293FT cells, which is a reversible process [1]. At a concentration of 2.5 μM and after 72 hours, MS159 not only induces NSD2 degradation, but also effectively degrades IKZF1 and IKZF3 in KMS11 and H929 multiple myeloma cell lines; this degradation is facilitated by the ubiquitin-proteasome system (UPS-) and cereblon (CRBN-) mechanisms [1]. Further, sustained treatment of MS159 (2.5 μM for 8 days) significantly hampers the growth of these multiple myeloma cells, which is attributed to the induced degradation of NSD2 [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2065 mL	6.0326 mL	12.0652 mL
5 mM	0.2413 mL	1.2065 mL	2.413 mL
10 mM	0.1207 mL	0.6033 mL	1.2065 mL
50 mM	0.0241 mL	0.1207 mL	0.2413 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481