

MS-8709

Chemical Properties

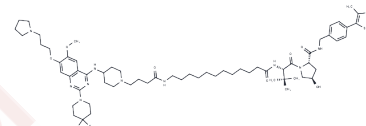
CAS No. : 3060730-06-2

Formula: C64H95F2N11O7S

Molecular Weight: 1200.57

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	MS-8709 is a potent and selective G9a/GLP PROTAC Degradator with a DC50(G9a) of 274 nM and a DC50(GLP) of 260 nM. It induces G9a/GLP protein degradation in a concentration-dependent and time-dependent manner via the ubiquitin-proteasome system, without affecting mRNA expression levels. MS-8709 demonstrates superior cell growth inhibition compared to the parent compound UNC0642 in prostate cancer, leukemia, and lung cancer cell models, and exhibits mouse pharmacokinetic characteristics suitable for in vivo efficacy studies.
Targets(IC50)	Histone Methyltransferase,PROTACs
In vitro	In separate cell proliferation assays involving 22Rv1, K562, and NCI-H1299 cell lines, MS-8709 displayed superior antiproliferative activity compared to the parent inhibitor UNC0642, yielding GI50 values ranging from 4.1 to 5 µM [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (33.32 mM),Sonication 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	0.8329 mL	4.1647 mL	8.3294 mL
5 mM	0.1666 mL	0.8329 mL	1.6659 mL
10 mM	0.0833 mL	0.4165 mL	0.8329 mL
50 mM	0.0167 mL	0.0833 mL	0.1666 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

Julia Velez, et al. Discovery of the First-in-class G9a/GLP PROTAC Degradar. BioRxiv. Posted February 29, 2024.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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