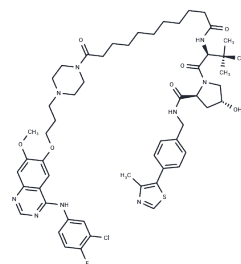


MS 39

Chemical Properties

CAS No. :	2675490-92-1
Formula:	C55H71ClFN9O7S
Molecular Weight:	1056.72
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	MS 39 is a potent Proteolysis Targeting Chimera (PROTAC) designed to degrade the Epidermal Growth Factor Receptor (EGFR). The molecule is composed of three structural motifs: an EGFR target ligand (red part), a VHL E3 ligase ligand (S,R,S)-AHPC (blue part), and an undecanedioic acid linker (black part). By facilitating the formation of a ternary complex between EGFR and the VHL E3 ubiquitin ligase, MS 39 triggers the polyubiquitination and subsequent proteasomal degradation of the receptor. MS 39 effectively reduces EGFR protein levels and inhibits downstream oncogenic signaling in HCC-827 and H3255 cell lines, leading to significant suppression of H3255 cancer cell proliferation.
Targets(IC50)	EGFR,PROTACs

Solubility Information

Solubility	DMSO: 80 mg/mL (75.71 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	0.9463 mL	4.7316 mL	9.4632 mL
5 mM	0.1893 mL	0.9463 mL	1.8926 mL
10 mM	0.0946 mL	0.4732 mL	0.9463 mL
50 mM	0.0189 mL	0.0946 mL	0.1893 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

Cheng et al (2020) Discovery of potent and selective epidermal growth factor receptor (EGFR) bifunctional small-molecule degraders. J.Med.Chem. 63 1216 PMID: 31895569

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