

MS 154

Chemical Properties

CAS No. : 2550393-21-8

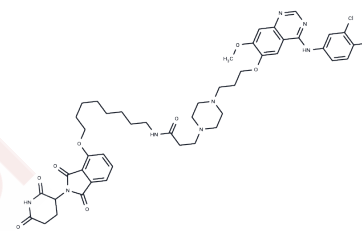
Formula: C₄₆H₅₄ClFN₈O₈

Molecular Weight: 901.42

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	MS 154 is a potent and selective cereblon-recruiting Degradator (PROTAC®) of mutant epidermal growth factor receptor (EGFR), comprising a cereblon-binding moiety joined by a linker to gefitinib(Iressa). MS 154 decreases EGFR protein levels, inhibits downstream signaling in and inhibits proliferation of mutant EGFR-bearing lung cancer cells (DC50 values are 11 and 25 nM in HCC-827 and H3255 cells, respectively; Dmax> 95% at 50 nM), but not in WT-EGFR-bearing ovarian and lung cancer cells lines. Bioavailable in mice following ip administration.
Targets(IC50)	EGFR,Others,PROTACs

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1094 mL	5.5468 mL	11.0936 mL
5 mM	0.2219 mL	1.1094 mL	2.2187 mL
10 mM	0.1109 mL	0.5547 mL	1.1094 mL
50 mM	0.0222 mL	0.1109 mL	0.2219 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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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