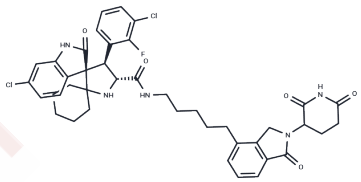
Data Sheet (Cat.No.T12027)

TargetMol

MG-277

Chemical Properties



CAS No. :

Formula: C41H42Cl2FN5O5

Molecular Weight: 774.71

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	MG-277 is a molecular glue compound transformed from PROTAC degradation agent, MG-277 potently inhibits tumor cell growth in a p53-independent manner.
Targets(IC50)	Apoptosis,Mdm2,Molecular Glues,PROTACs
In vitro	MG277 has a significantly decreased potency in reducing the level of MDM2 protein in cells and fails to activate wild-type p53. MG-277 is highly potent and effective in inhibition of cell growth in cancer cell lines with wild-type p53, mutated p53, or deleted p53, indicating a p53-independent mechanism. MG-277 induces rapid GSPT1 degradation in cancer cells in a p53- and MDM2-independent manner but in a manner dependent upon cereblon, CUL4 E3 ubiquitin ligase, and proteasomes[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2908 mL	6.454 mL	12.9081 mL
5 mM	0.2582 mL	1.2908 mL	2.5816 mL
10 mM	0.1291 mL	0.6454 mL	1.2908 mL
50 mM	0.0258 mL	0.1291 mL	0.2582 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

Yang J, et al. Simple Structural Modifications Converting a Bona fide MDM2 PROTAC Degrader into a Molecular Glue Molecule: A Cautionary Tale in the Design of PROTAC Degraders. J Med Chem. 2019 Oct 21.

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