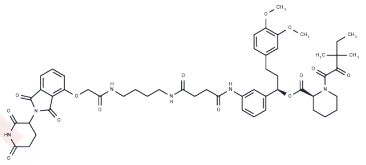
Data Sheet (Cat.No.T18597)

TargetMol

dFKBP-1

Chemical Properties



CAS No. : 1799711-22-0

Formula: C53H64N6O14

Molecular Weight: 1009.11

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	dFKBP-1 is a potent PROTAC-based FKBP12 degrader incorporating the FKBP12 ligand SLF, the Thalidomide-based cereblon ligand, and a linker[1].
Targets(IC50)	FKBP,PROTACs
In vitro	dFKBP-1 significantly reduces FKBP12 levels in MV4;11 cells, achieving over an 80% decrease at 0.1 μM and a 50% decrease at 0.01 μM. Similarly to dBET1, dFKBP-1's effect on FKBP12 destabilization can be reversed by pre-treatment with Carfilzomib, MLN4924, free SLF, or free Thalidomide. The mechanism of Cereblon (CRBN)-dependent degradation was confirmed using established isogenic 293FT cell lines, both wild-type (293FT-WT) and CRBN-deficient (293FT-CRBN?/?). dFKBP-1 treatment led to a potent and dose-dependent decrease in FKBP12 in 293FT-WT cells, with no impact observed on 293FT-CRBN?/? cells[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.991 mL	4.9549 mL	9.9097 mL
5 mM	0.1982 mL	0.991 mL	1.9819 mL
10 mM	0.0991 mL	0.4955 mL	0.991 mL
50 mM	0.0198 mL	0.0991 mL	0.1982 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

Winter GE, et al. DRUG DEVELOPMENT. Phthalimide conjugation as a strategy for in vivo target protein degradation. Science. 2015 Jun 19;348(6241):1376-81.