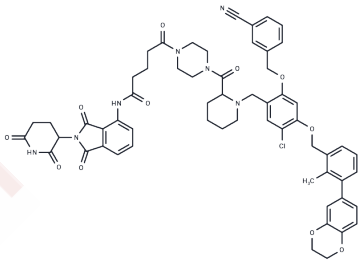
Data Sheet (Cat.No.T40112)

TargetMol

PROTAC PD-1/PD-L1 degrader-1

Chemical Properties



CAS No. : 2447066-37-5

Formula: C59H58ClN7O11

Molecular Weight: 1076.59

Storage: Store at low temperature,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	PROTAC PD-1/PD-L1 degrader-1, a Cereblon E3 ligand-based compound, is a PD-1/PD-L1 PROTAC that effectively inhibits the PD-1/PD-L1 interaction with an IC50 of 39.2 nM. It restores the suppressed immune response in a co-culture model of Hep3B/OS-8/hPD-L1 cells and CD3 T cells and moderately decreases PD-L1 protein levels through a lysosome-dependent mechanism.
Targets(IC50)	PD-1/PD-L1,PROTACs
In vitro	PROTAC PD-1/PD-L1 degrader-1 (compound p22) significantly reduces PD-L1 expression on the cell surface by over 14%[1]. When administered at 1-10 μM for 24 hours, it decreases PD-L1 levels dose-dependently, with reductions of 21% and 35% at 1 μM and 10 μM, respectively[1]. Western Blot Analysis in MDA-MB-231 cell lines confirmed its efficacy in modulating PD-L1 expression at these dosages[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9289 mL	4.6443 mL	9.2886 mL
5 mM	0.1858 mL	0.9289 mL	1.8577 mL
10 mM	0.0929 mL	0.4644 mL	0.9289 mL
50 mM	0.0186 mL	0.0929 mL	0.1858 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 B,et al. Discovery of novel resorcinol diphenyl ether-based PROTAC-like molecules as dual inhibitors and degraders of PD-LEur J Med Chem. 2020;199:112377.