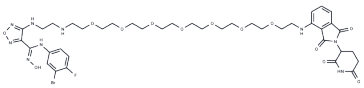
Data Sheet (Cat.No.T37329)

TargetMol
YOUR TARGET MOLECULES

PROTAC IDO1 Degrader-1

Chemical Properties



CAS No. : 2488851-89-2

Formula: C40H53BrFN9O13

Molecular Weight: 966.816

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	PROTAC IDO1 Degrader-1, a pioneering compound, efficiently targets indoleamine 2,3-dioxygenase 1 (IDO1) for ubiquitination and degradation by recruiting IDO1 to the CRBN E3 ligase, thereby facilitating its entry into the ubiquitin-proteasome system (UPS) with a DC50 of 2.84 μM. This compound also moderately enhances the tumor-killing efficacy of HER2 CAR-T cells[1].
Targets(IC50)	PROTACs
In vitro	PROTAC IDO1 Degrader-1 (compound 2c) (10 μM; 24 hours) notably decreases IDO1 level induced by IFN-γ[1].PROTAC IDO1 Degrader-1 and IFN-γ (5 ng/mL) are incubated with HeLa cells for 24 h, and a significant dose-dependent degradation is observed. PROTAC IDO1 Degrader-1 combined with chimeric antigen receptor-modified T (CAR-T) cells can improve the tumor-killing activity of HER-2 CAR-T cells[1].PROTAC IDO1 Degrader-1 induces significant and persistent degradation of IDO1 with maximum degradation (dmax) of 93% in HeLa cells[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0343 mL	5.1716 mL	10.3432 mL
5 mM	0.2069 mL	1.0343 mL	2.0686 mL
10 mM	0.1034 mL	0.5172 mL	1.0343 mL
50 mM	0.0207 mL	0.1034 mL	0.2069 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.

Reference

Hu M, et al. Discovery of the first potent proteolysis targeting chimera (PROTAC) degrader of indoleamine 2,3-dioxygenase 1. Acta Pharm Sin B. 2020;10(10):1943-1953.

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