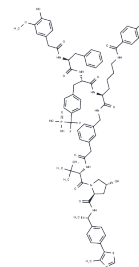


## DU-14 (PTP1B/TC-PTP PROTAC)

### Chemical Properties

CAS No. :	3053413-58-1
Formula:	C74H85BrF2N9O14PS
Molecular Weight:	1505.46
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	DU-14 (PTP1B/TC-PTP PROTAC) is a potent and selective dual PROTAC degrader for PTP1B and TC-PTP, exhibiting IC50 values of 24.2 nM and 30.1 nM for the phosphatase activity of PTP1B and TC-PTP, respectively. It enhances IFN- $\gamma$ signaling, promotes T cell activation, and possesses antitumor activity.
Targets(IC50)	STAT,PROTACs
In vitro	DU-14 (PTP1B/TC-PTP PROTAC) (0-1000 nM; 16 hours) induces degradation of PTP1B/TC-PTP and enhances STAT1 phosphorylation in IFN- $\gamma$ -treated MC38 cells.
In vivo	In a mouse model of colon cancer, DU-14 (PTP1B/TC-PTP PROTAC) demonstrates antitumor activity when administered via intraperitoneal injection at a dosage of 25-50 mg/kg over 10 days.

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6642 mL	3.3212 mL	6.6425 mL
5 mM	0.1328 mL	0.6642 mL	1.3285 mL
10 mM	0.0664 mL	0.3321 mL	0.6642 mL
50 mM	0.0133 mL	0.0664 mL	0.1328 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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