

D5B

## Chemical Properties

CAS No. :

Formula: C58H66N2O12

Molecular Weight: 983.15

Storage: 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	D5B is an effective and selective PD-L1 inhibitor that has been modified with DBCO. It degrades PD-L1 in 4T1 and B16-F10 tumor cells with EC50 values of 5.4 $\mu$ M and 6.2 $\mu$ M, respectively. D5B can block the PD-L1/PD-1 interaction and exhibits antitumor activity.
Targets(IC50)	PD-1/PD-L1
In vitro	D5B (0-10 $\mu$ M; 24 hours) degrades PD-L1 in 4T1 and B16-F10 tumor cells, with EC50 values of 5.4 $\mu$ M and 6.2 $\mu$ M, respectively. Additionally, D5B (0-5 $\mu$ M; 48 hours) significantly reduces the abundance of PD-L1 on the cell membrane surface in IFN- $\gamma$ treated and azide-labeled 4T1 and B16-F10 tumor cells.
In vivo	Administered intravenously at a single dose of 5 mg/kg, D5B exhibits anti-tumor activity in mouse tumor models, with enhanced efficacy when combined with radiotherapy. (D5B refers to PCPGd@D5B nanoparticles).

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0171 mL	5.0857 mL	10.1714 mL
5 mM	0.2034 mL	1.0171 mL	2.0343 mL
10 mM	0.1017 mL	0.5086 mL	1.0171 mL
50 mM	0.0203 mL	0.1017 mL	0.2034 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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