

DBCO-NHCO-PEG12-biotin

Chemical Properties

CAS No. :

Formula: C₅₅H₈₃N₅O₁₆S

Molecular Weight: 1102.34

Appearance: no data available

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



Biological Description

Description	DBCO-NHCO-PEG12-biotin is a PEG-based linker for PROTACs which joins two essential ligands, crucial for forming PROTAC molecules. This linker enables selective protein degradation by leveraging the ubiquitin-proteasome system within cells.
Targets(IC50)	Others
In vitro	PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9072 mL	4.5358 mL	9.0716 mL
5 mM	0.1814 mL	0.9072 mL	1.8143 mL
10 mM	0.0907 mL	0.4536 mL	0.9072 mL
50 mM	0.0181 mL	0.0907 mL	0.1814 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

An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481