

DBCO-S-S-PEG3-biotin

Chemical Properties

CAS No. : 1430408-09-5

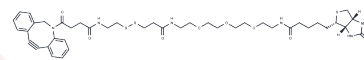
Formula: C42H56N6O8S3

Molecular Weight: 869.12

Store at low temperature

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DBCO-S-S-PEG3-biotin is a cleavable reagent for the introduction of a biotin moiety to azide-containing biomolecules using copper-free Click Chemistry. The disulfide bond in this linker can be cleaved with reducing agents such as DTT, BME, and TCEP to remove the biotin label. PEG linkers can also be used in the synthesis of PROTACs.
Targets(IC50)	PROTAC Linker
In vitro	PROTACs consist of two ligands joined by a linker: one ligand binds to an E3 ubiquitin ligase, and the other targets the desired protein. PROTACs leverage the intracellular ubiquitin-proteasome system to selectively degrade target proteins [1].

Solubility Information

Solubility	DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1506 mL	5.7529 mL	11.5059 mL
5 mM	0.2301 mL	1.1506 mL	2.3012 mL
10 mM	0.1151 mL	0.5753 mL	1.1506 mL
50 mM	0.023 mL	0.1151 mL	0.2301 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

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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