

DBCO-PEG5-NHS ester

Chemical Properties

CAS No. : 2144395-59-3

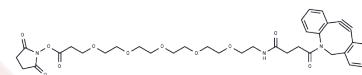
Formula: C₃₆H₄₃N₃O₁₁

Molecular Weight: 693.74

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-PEG5-NHS ester is a PROTAC linker belonging to the PEG and Alkyl/ether classes for the synthesis of a range of PROTAC molecules.
Targets(IC50)	ADC Linker, PROTAC Linker
In vitro	PROTACs consist of two different ligands that are linked by a linker, one of which is directed against the E3 ubiquitin ligase and the other against the target protein. PROTACs selectively degrade target proteins through the intracellular ubiquitin-proteasome system. ADCs consist of an antibody, a linker, and a cytotoxin, which binds to the antibody through the linker.

Solubility Information

Solubility	DMSO: 80 mg/mL (115.32 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	1.4415 mL	7.2073 mL	14.4146 mL
5 mM	0.2883 mL	1.4415 mL	2.8829 mL
10 mM	0.1441 mL	0.7207 mL	1.4415 mL
50 mM	0.0288 mL	0.1441 mL	0.2883 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

Craig L. Duvall, et al. Conjugation of lipophilic albumin-binding moiety to rna for improved carrier-free in vivo pharmacokinetics and gene silencing. US20180064749A1.

Sarett SM, et al. Lipophilic siRNA targets albumin in situ and promotes bioavailability, tumor penetration, and carrier-free gene silencing. Proc Natl Acad Sci U S A. 2017 Aug 8;114(32):E6490-E6497.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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