DBCO-PEG5-NHS ester

Cat. No.: HY-126885

CAS No.: 2144395-59-3

Molecular Formula: $C_{36}H_{43}N_3O_{11}$

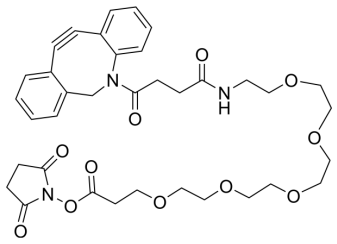
Molecular Weight: 693.74

Target: ADC Linker; PROTAC Linkers

Pathway: Antibody-drug Conjugate/ADC Related; PROTAC

Storage: -20°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (144.15 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

DBCO-PEG5-NHS ester is a PEG/Alkyl/ether-based PROTAC linker can be used in the synthesis of PROTACs. DBCO-PEG5-NHS ester is a cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[1][2]. DBCO-PEG5-NHS ester is a click chemistry reagent, it contains a DBCO group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups.

IC_{50} & Target			
	Cleavable Linker	Alkyl/ether	PEGs

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. ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

[2]. Samantha M Sarett, 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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA