TCO-PEG4-NHS ester

Cat. No.: HY-141167

CAS No.: 1613439-69-2

Molecular Formula: $C_{24}H_{38}N_2O_{10}$

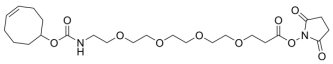
Molecular Weight: 514.57

Target: ADC Linker; PROTAC Linkers

Pathway: Antibody-drug Conjugate/ADC Related; PROTAC

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (97.17 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.9434 mL	9.7169 mL	19.4337 mL
5 mM	0.3887 mL	1.9434 mL	3.8867 mL
10 mM	0.1943 mL	0.9717 mL	1.9434 mL

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

BIOLOGICAL ACTIVITY

Description

TCO-PEG4-NHS ester is a PEG-based PROTAC linker can be used in the synthesis of PROTACs. TCO-PEG4-NHS ester is a cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[1].

IC_{50} & Target

Cleavable Linker | 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]. Jung S, et al. An integrated approach for enhanced protein conjugation and capture with viral nanotemplatesand hydrogel microparticle platforms via rapid

bioorthogonal reactions. Langmuir. 2014 Jul 8;30(26):7762-70.

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