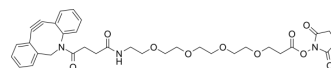


DBCO-PEG4-NHS ester

Cat. No.:	HY-140272
CAS No.:	1427004-19-0
Molecular Formula:	C ₃₄ H ₃₉ N ₃ O ₁₀
Molecular Weight:	649.69
Target:	PROTAC Linkers
Pathway:	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 : 70 mg/mL (107.74 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration \ Mass	1 mg	5 mg	10 mg
		1 mM	1.5392 mL	7.6960 mL	15.3920 mL
		5 mM	0.3078 mL	1.5392 mL	3.0784 mL
		10 mM	0.1539 mL	0.7696 mL	1.5392 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.20 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (3.20 mM); Suspended solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.20 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	DBCO-PEG4-NHS ester is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs ^[1] . DBCO-PEG4-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	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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Biol Macromol. 2024 Apr 6;267(Pt 1):131453.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. 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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Caution: Product has not been fully validated for medical applications. For research use only.

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