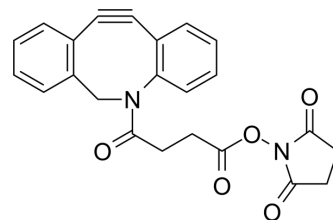


DBCO-NHS ester

Cat. No.:	HY-42973
CAS No.:	1353016-71-3
Molecular Formula:	C ₂₃ H ₁₈ N ₂ O ₅
Molecular Weight:	402.40
Target:	ADC Linker
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (124.25 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.4851 mL	12.4254 mL	24.8509 mL
	5 mM		0.4970 mL	2.4851 mL	4.9702 mL
	10 mM		0.2485 mL	1.2425 mL	2.4851 mL

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

BIOLOGICAL ACTIVITY

Description	DBCO-NHS ester is a non-cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs) ^[1] . DBCO-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
In Vitro	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.

CUSTOMER VALIDATION

- Angew Chem Int Ed Engl. 2021 May 10;60(20):11464-11473.
- Int J Biol Macromol. 2025 Oct 3;330(Pt 3):148101.

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- Eur J Pharm Biopharm. 2023 Feb;183:61-73.
 - Patent. US20250152698A1.
 - Brno University of Technology. 2024.

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REFERENCES

[1]. Method for identifying potential drug target protein useful for development of antibody drug, and method for producing antibody directed against target protein. WO2018151301A1.

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

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