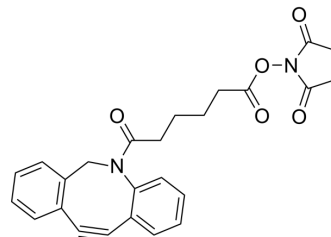


DBCO-NHS ester 2

Cat. No.:	HY-115524		
CAS No.:	1384870-47-6		
Molecular Formula:	C ₂₅ H ₂₂ N ₂ O ₅		
Molecular Weight:	430.45		
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 : 14.29 mg/mL (33.20 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent \ Mass \ Concentration	1 mg	5 mg	10 mg
		1 mM	2.3232 mL	11.6158 mL	23.2315 mL
		5 mM	0.4646 mL	2.3232 mL	4.6463 mL
		10 mM	0.2323 mL	1.1616 mL	2.3232 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: ≥ 1.43 mg/mL (3.32 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	DBCO-NHS ester 2 is a cleavable linker that is used for making antibody-drug conjugate (ADC). DBCO-NHS ester 2 is a derivative of Dibenzylcyclooctyne (DBCO) used in copper-free click chemistry ^[1] . DBCO-NHS ester 2 is a click chemistry reagent, it contains a DBCO group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups.
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REFERENCES

[1]. Tang F, et al. Chemoenzymatic synthesis of glycoengineered IgG antibodies and glycosite-specific antibody-drug conjugates. Nat Protoc. 2017 Aug;12(8):1702-1721.

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

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