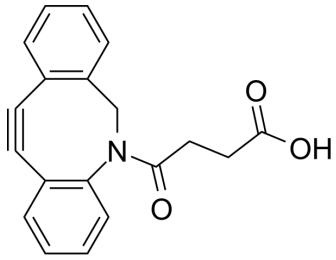
DBCO-acid

Cat. No.:	HY-42972
CAS No.:	1353016-70-2
Molecular Formula:	$C_{19}H_{15}NO_3$
Molecular Weight:	305.33
Target:	ADC Linker
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (327.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2751 mL	16.3757 mL	32.7515 mL
	5 mM	0.6550 mL	3.2751 mL	6.5503 mL
	10 mM	0.3275 mL	1.6376 mL	3.2751 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: ≥ 2.5 mg/mL (8.19 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.19 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.19 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DBCO-acid is a cleavable ADC linker used in the synthesis of ADC linker DBCO-NHS ester (HY-115524 and HY-115545), and agent-linker conjugates DBCO-PEG-MMAE (HY-111012 and HY-126690)[1]. DBCO-acid is a click chemistry reagent, it contains a DBCO group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups[1].

IC_{50} & Target

Cleavable Linker

REFERENCES

[1]. Zimmerman ES, et al. Production of site-specific antibody-drug conjugates using optimized non-natural amino acids in a cell-free expression system. Bioconjug Chem. 2014 Feb 19;25(2):351-61.

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