Cyclooctyne-O-NHS ester

Cat. No.: HY-126517

CAS No.: 1425803-45-7

Molecular Formula: $C_{14}H_{17}NO_5$

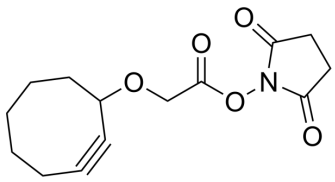
Molecular Weight: 279.29

Target: ADC Linker

Pathway: Antibody-drug Conjugate/ADC Related

Storage: -20°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 (358.05 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5805 mL	17.9025 mL	35.8051 mL
	5 mM	0.7161 mL	3.5805 mL	7.1610 mL
	10 mM	0.3581 mL	1.7903 mL	3.5805 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: ≥ 6.25 mg/mL (22.38 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 5 mg/mL (17.90 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (17.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cyclooctyne-O-NHS ester is a cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[1]. Cyclooctyne-O-NHS ester is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) 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.

REFERENCES

[1]. Tao Wang, et al. Design and synthesis of tumor-targeting theranostic drug conjugates for SPECT and PET imaging studies. Bioorg Chem. 2018 Feb;76:458-467.

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