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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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20-(tert-Butoxy)-20-oxoicosanoic acid

Cat. No.: HY-W034597

CAS No.: 683239-16-9

Molecular Formula: $C_{24}H_{46}O_4$

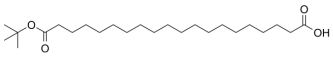
Molecular Weight: 398.62

Target: ADC Linker; PROTAC Linkers

Pathway: Antibody-drug Conjugate/ADC Related; PROTAC

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (125.43 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5087 mL	12.5433 mL	25.0865 mL
	5 mM	0.5017 mL	2.5087 mL	5.0173 mL
	10 mM	0.2509 mL	1.2543 mL	2.5087 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (12.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

20-(tert-Butoxy)-20-oxoicosanoic acid is a non-cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). 20-(tert-Butoxy)-20-oxoicosanoic acid is also a alkyl chain-based PROTAC linker that can be used in the synthesis of PROTACs

IC_{50} & Target

Non-cleavable Linker

In Vitro

ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker[1].
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[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Beck A, et al. Strategies and challenges for the next generation of antibody-drug conjugates. Nat Rev Drug Discov. 2017;16(5):315-337.

[2]. Nalawansha DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. Cell Chem Biol. 2020;27(8):998-985.

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