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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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Azido-PEG4-C2-acid

Cat. No.: HY-130653

CAS No.: 1257063-35-6

Molecular Formula: $C_{11}H_{21}N_3O_6$

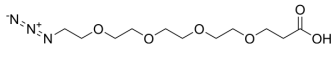
Molecular Weight: 291.3

Target: PROTAC Linkers; ADC Linker

Pathway: PROTAC; Antibody-drug Conjugate/ADC Related

Storage:

Pure form	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (343.29 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.4329 mL	17.1644 mL	34.3289 mL
	5 mM	0.6866 mL	3.4329 mL	6.8658 mL
	10 mM	0.3433 mL	1.7164 mL	3.4329 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 (8.58 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Azido-PEG4-C2-acid a PEG-based PROTAC linker can be used in the synthesis of vRucaparib-TP4. Azido-PEG4-C2-acid is also a non-cleavable 4 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs). Azido-PEG4-C2-acid is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAc) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

In Vitro

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. 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]. Wang S, et al. Uncoupling of PARP1 trapping and inhibition using selective PARP1 degradation. Nat Chem Biol. 2019 Dec;15(12):1223-1231.

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