Bromo-PEG2-C2-azide

Cat. No.: HY-130485

CAS No.: 530151-56-5

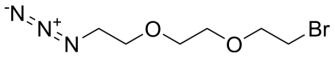
Molecular Formula: $C_6H_{12}BrN_3O_2$

Molecular Weight: 238.08

Target: ADC Linker; PROTAC Linkers

Pathway: Antibody-drug Conjugate/ADC Related; PROTAC

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 (420.03 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.2003 mL	21.0013 mL	42.0027 mL
	5 mM	0.8401 mL	4.2003 mL	8.4005 mL
	10 mM	0.4200 mL	2.1001 mL	4.2003 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 (10.50 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (10.50 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.50 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bromo-PEG2-C2-azide is a non-cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). Bromo-PEG2-C2-azide is also a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1]. Bromo-PEG2-C2-azide 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.

IC_{50} & Target		
	Non-cleavable Linker	PEGs

In Vitro

ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker.

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.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yong Zu Kim, et al. Antibody-drug conjugates comprising branched linkers and methods related thereto. WO2017089895A1.

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