m-PEG12-amine

Cat. No.: HY-140227

CAS No.: 1977493-48-3

Molecular Formula: $C_{25}H_{53}NO_{12}$

Molecular Weight: 559.69

Target: PROTAC Linkers; ADC Linker

Pathway: PROTAC; Antibody-drug Conjugate/ADC Related

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (178.67 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7867 mL	8.9335 mL	17.8670 mL
	5 mM	0.3573 mL	1.7867 mL	3.5734 mL
	10 mM	0.1787 mL	0.8934 mL	1.7867 mL

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

BIOLOGICAL ACTIVITY

Description

m-PEG12-amine is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1]. m-PEG12-amine is also a non-cleavable 12 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[2].

IC_{50} & Target		
	PEGs	Non-cleavable Linker

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

REFERENCES

[1]. Vasco AV, et al. A Multicomponent Stapling Approach to Exocyclic Functionalized Helical Peptides: Adding Lipids, Sugars, PEGs, Labels, and Handles to the Lactam Bridge. Bioconjug Chem. 2019 Jan 16;30(1):253-259.

[2]. Joseph Fox, et al. Methods for inducing bioorthogonal reactivity. WO2017106427A1.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA