Data Sheet (Cat.No.T15839)

TargetMol

m-PEG12-amine

Chemical Properties

CAS No. :	1977493-48-3
Formula:	C25H53NO12
Molecular Weight:	559.69
Storage:	Store at low temperature,Keep away from direct sunlight Pure form: -20°C for 3 years | In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	m-PEG12-amine is a PEG-based PROTAC linker and a non-cleavable 12-unit PEG ADC linker used in the synthesis of PROTACs [1] and antibody-drug conjugates (ADCs) [2].
Targets(IC50)	ADC Linker,PROTAC Linker
In vitro	PROTACs, or proteolysis-targeting chimeras, are composed of two distinct ligands joined by a linker. One of these ligands binds to a specific protein target, while the other binds to an E3 ubiquitin ligase. When the PROTAC binds to both the target protein and the E3 ligase, it triggers the ubiquitin-proteasome system within cells to degrade the target protein, thereby providing a mechanism for targeted protein degradation.

Solubility Information

Solubility	DMSO: 90 mg/mL (160.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7867 mL	8.9335 mL	17.867 mL
5 mM	0.3573 mL	1.7867 mL	3.5734 mL
10 mM	0.1787 mL	0.8934 mL	1.7867 mL
50 mM	0.0357 mL	0.1787 mL	0.3573 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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