

## m-PEG10-alcohol

## Chemical Properties

CAS No. : 27425-92-9

Formula: C<sub>21</sub>H<sub>44</sub>O<sub>11</sub>

Molecular Weight: 472.57



Keep away from direct sunlight

Storage: Powder: -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-PEG10-alcohol, also known as Decaethylene glycol monomethyl ether, is a non-cleavable 10 unit PEG ADC linker utilized in the synthesis of antibody-drug conjugates (ADCs)[1]. Additionally, m-PEG10-alcohol serves as a PEG-based PROTAC linker, enabling its application in the synthesis of PROTACs[1].
Targets(IC50)	ADC Linker,PROTAC Linker
In vitro	ADCs, or antibody-drug conjugates, consist of an antibody that is linked to a cytotoxic drug molecule via a specialized linker. This allows the antibody to specifically target certain cells or proteins, while the attached cytotoxin can selectively destroy those targeted cells. 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.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1161 mL	10.5804 mL	21.1609 mL
5 mM	0.4232 mL	2.1161 mL	4.2322 mL
10 mM	0.2116 mL	1.058 mL	2.1161 mL
50 mM	0.0423 mL	0.2116 mL	0.4232 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

Nnochiri Ekwuribe, et al. Calcitonin drug-oligomer conjugates, and uses thereof. US20040091452A1.

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