

Mal-Cyclohexyl-PEG3-Biotin

Chemical Properties

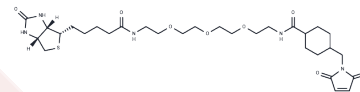
CAS No. : 2639395-45-0

Formula: C30H47N5O8S

Molecular Weight: 637.788

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

Mal-Cyclohexyl-PEG3-Biotin is a PEG linker that includes a maleimide moiety and a biotin group. The maleimide specifically reacts with thiols at a pH between 6.5 and 7.5, forming a stable thioether bond. Biotinylation can occur with amine molecules in the presence of activators like EDC or HATU. The PEG linkage, attached to biotin, creates an extended spacer arm, facilitating biotin's access to protein binding sites. Additionally, the PEG component enhances the solubility of the biotin-PEG conjugate significantly.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5679 mL	7.8396 mL	15.6791 mL
5 mM	0.3136 mL	1.5679 mL	3.1358 mL
10 mM	0.1568 mL	0.784 mL	1.5679 mL
50 mM	0.0314 mL	0.1568 mL	0.3136 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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