

DBCO-PEG4-Biotin

Chemical Properties

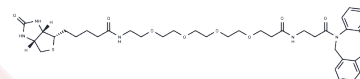
CAS No. : 1255942-07-4

Formula: C39H51N5O8S

Molecular Weight: 749.92

Storage: Store at low temperature, Keep away from moisture
 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	DBCO-PEG4-Biotin (ADIBO-NH-PEG2-Biotin) is an azadibenzocyclooctyne-biotin derivative containing a biotin moiety and 4 PEGs. DBCO-PEG4-Biotin is a versatile biotinylation reagent that introduces a portion of biotin into an azide-labelled biomolecule via a copper-free catalytic alkyl azide reaction (SPAAC). azide-labelled biomolecules via a copper-free catalytic alkyl azide reaction (SPAAC).
Targets(IC50)	Others
In vitro	The alkyne group reacts with the azide moiety in a copper-free Click Chemistry reaction to form a stable triazole linkage.[1]

Solubility Information

Solubility	H2O: 6.67 mg/mL (8.89 mM), Sonication is recommended. DMSO: 66.67 mg/mL (88.9 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (2.67 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3335 mL	6.6674 mL	13.3348 mL
5 mM	0.2667 mL	1.3335 mL	2.667 mL
10 mM	0.1333 mL	0.6667 mL	1.3335 mL
50 mM	0.0267 mL	0.1333 mL	0.2667 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

Hammink R, et al. Affinity-Based Purification of Polyisocyanopeptide Bioconjugates. *Bioconjug Chem.* 2017 Oct 18; 28(10):2560-2568.

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