DBCO-PEG4-Biotin

Cat. No.: CAS No.:	HY-130809 1255942-07-4	
Molecular Formula: Molecular Weight:	C ₃₉ H ₅₁ N ₅ O ₈ S 749.92	
Target:	Biochemical Assay Reagents	ну станин ну станин н н н н н н н н н н н н н н н н н н
Pathway: Storage:	Others 4°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.3335 mL	6.6674 mL	13.3348 mL		
	Stock Solutions	5 mM	0.2667 mL	1.3335 mL	2.6670 mL		
		10 mM	0.1333 mL	0.6667 mL	1.3335 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.33 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.33 mM); Clear solution					
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.33 mM); Clear solution					

BIOLOGICAL ACTIVITY				
Description	DBCO-PEG4-Biotin is an azadibenzocyclooctyne-biotin derivative containing a biotin group and 4 PEGs. DBCO-PEG4-Biotin is a versatile biotinylation reagent used for the introduction of a biotin moiety to azide-labeled biomolecules via copper-free strain-promoted alkyne-azide click chemistry (SPAAC) reaction ^[1] . DBCO-PEG4-Biotin is a click chemistry reagent, it contains a DBCO group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups.			
In Vitro	The alkyne group can react with azide moiety in copper-free Click Chemistry reaction to form a stable triazole linkage. MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet



REFERENCES

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

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

Caution: Product has not been fully validated for medical applications. For research use only.

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