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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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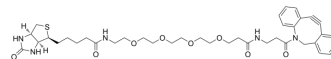
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DBCO-PEG4-Biotin

Cat. No.:	HY-130809
CAS No.:	1255942-07-4
Molecular Formula:	C ₃₉ H ₅₁ N ₅ O ₈ S
Molecular Weight:	749.92
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	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	DMSO : 100 mg/mL (133.35 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.3335 mL	6.6674 mL	13.3348 mL
		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 solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> 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 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 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 azidobenzocyclooctyne-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.

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

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