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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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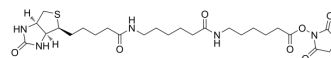
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Biotin-LC-LC-NHS

Cat. No.:	HY-W040254
CAS No.:	89889-52-1
Molecular Formula:	C ₂₆ H ₄₁ N ₅ O ₇ S
Molecular Weight:	567.7
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (220.19 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
	Preparing Stock Solutions	1 mM	5 mM	10 mM
		1.7615 mL	8.8075 mL	17.6149 mL
		0.3523 mL	1.7615 mL	3.5230 mL
		0.1761 mL	0.8807 mL	1.7615 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: ≥ 2.08 mg/mL (3.66 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.66 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.66 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Biotin-LC-LC-NHS is a SMCC cross-linking reagent that can be used to mark antibody and other small molecules, such as Paclitaxel ^{[1][2]} .
In Vitro	<p>Biotinylation of antibodies is accomplished by the reaction of Biotin-LC-LC-NHS (1 mg/mL in dimethyl formamide) with the protein in aqueous phase pH 7.4. The molar ratio of biotin to antibody in the labeling reaction was 10:1 (the final concentration of biotin was 70 μM)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. K Dill, et al. Immunoassays Based on Electrochemical Detection Using Microelectrode Arrays. Biosens Bioelectron. 2004 Nov 1;20(4):736-42.
- [2]. Lev G Lis, et al. Synthesis and Biological Evaluation of a Biotinylated Paclitaxel With an Extra-Long Chain Spacer Arm. ACS Med Chem Lett . 2012 Sep 13;3(9):745-748.
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Caution: Product has not been fully validated for medical applications. For research use only.

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