



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

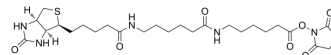
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## Biotin-LC-LC-NHS

<b>Cat. No.:</b>	HY-W040254
<b>CAS No.:</b>	89889-52-1
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>41</sub> N <sub>5</sub> O <sub>7</sub> S
<b>Molecular Weight:</b>	567.7
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-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

<b>In Vitro</b>	DMSO : 100 mg/mL (176.15 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	1.7615 mL	8.8075 mL	17.6149 mL
		5 mM	0.3523 mL	1.7615 mL	3.5230 mL
10 mM		0.1761 mL	0.8807 mL	1.7615 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (3.66 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.66 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (3.66 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Biotin-LC-LC-NHS is a SMCC cross-linking reagent that can be used to mark antibody and other small molecules, such as Paclitaxel <sup>[1][2]</sup> .
<b>In Vitro</b>	<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)<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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## REFERENCES

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- [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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA