## Sulfo-NHS-SS-Biotin sodium

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®

Cat. No.:	HY-111496	
CAS No.:	325143-98-4	
Molecular Formula:	C <sub>19</sub> H <sub>27</sub> N <sub>4</sub> NaO <sub>9</sub> S <sub>4</sub>	
Molecular Weight:	606.69	
Target:	Fluorescent Dye	
Pathway:	Others	
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

## SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (206.04 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.6483 mL	8.2414 mL	16.4829 mL	
		5 mM	0.3297 mL	1.6483 mL	3.2966 mL	
		10 mM	0.1648 mL	0.8241 mL	1.6483 mL	
	Please refer to the sol	ubility 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: ≥ 2.08 mg/mL (3.43 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.43 mM); Clear solution					
	<ol> <li>Add each solvent of Solubility: ≥ 2.08 m</li> </ol>	one by one: 10% DMSO >> 90% cor ng/mL (3.43 mM); Clear solution	n oil			

Description	Sulfo-NHS-SS-biotin is a long-chain cleavable and cell-impermeant amine-reactive biotinylation reagent. Sulfo-NHS-SS- biotin can be used for the labeling and purifying of cell-surface protein <sup>[1]</sup> .			
IC <sub>50</sub> & Target	IC50: cell-surface protein <sup>[1]</sup>			
In Vitro	Sulfo-NHS-SS-biotin is a cell-surface-labeling reagent,? it is a negatively charged reagent and does not permeate cell membranes <sup>[1]</sup> . ?Sulfo-NHS-SS-biotin reacts with primary amines (NH2), such as lysine side-chains, or the amino-termini of polypeptides <sup>[1]</sup> .			

Suito-NHS-SS-biotin has a suitonate group and prevents it from permeating cell memoranes. The group's cleavable spacer
arm enables initially biotinylated proteins to be released from streptavidin affinity columns <sup>[1]</sup> .
?Sulfo-NHS-SS-biotin (1 mg/ml; 15 min) is applied in cells in monolayer culture (washed by? ice-cold PBS). The biotinylation
reactions are terminated with 100 mM glycine in PBS. After washing with PBS, cell extracts are prepared in RIPA buffer with
protease inhibitor cocktail (HY-K0010). Biotinylated membrane proteins are precipitated with streptavidin-sepharose and
proteins are eluted with SDS sample buffer <sup>[2]</sup> .
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Chia CP,et al. Phagocytosis in Dictyostelium discoideum is inhibited by antibodies directed primarily against common carbohydrate epitopes of a major cell-surface plasma membrane glycoprotein. Exp Cell Res. 1989 Mar; 181(1):11-26.

[2]. Jo M, et al. Cell signaling by urokinase-type plasminogen activator receptor induces stem cell-like properties in breast cancer cells. Cancer Res. 2010 Nov 1;70(21):8948-58.

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

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