

## Sulfo-NHS-SS-Biotin sodium

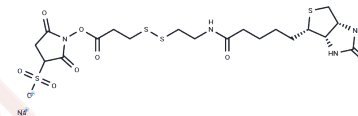
## Chemical Properties

CAS No. : 325143-98-4

Formula: C19H27N4NaO9S4

Molecular Weight: 606.69

Storage: Store at low temperature, Keep away from direct sunlight  
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



## Biological Description

Description	Sulfo-NHS-SS-Biotin sodium (Sulfosuccinimidyl 3-[[2-(biotinamido)ethyl]dithio]propionate) is a cell-impermeant and long-chain cleavable amine-reactive biotinylation reagent. It can be used for the labeling and purifying of cell-surface protein.
Targets(IC50)	Others
In vitro	Sulfo-NHS-SS-biotin is a negatively charged reagent that does not permeate cell membranes and reacts with primary amines (NH <sub>2</sub> ), such as lysine side-chains or amino-termini of polypeptides[1]. Sulfo-NHS-SS-biotin (1 mg/ml; 15 min) is applied to cells in monolayer culture, washed by ice-cold PBS. The biotinylation reaction is terminated with 100 mM glycine in PBS. After washing with PBS, cell extracts are prepared in RIPA buffer with protease inhibitor cocktail[2].
Cell Research	Methods CHO cells were treated with Sulfo-NHS-SS-Biotin sodium (0.78 mg/mL, 37°C, 1h) and washed with PBS to remove residual dye. Proteins in the cells were then quantified using LC-MS/MS.

## Solubility Information

Solubility	H <sub>2</sub> O: 180 mg/mL (296.69 mM), Sonication is recommended. DMSO: 250 mg/mL (412.07 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (5.44 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.033 mL	0.1648 mL	0.3297 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Kumar V, et al. Optimization and Application of a Biotinylation Method for Quantification of Plasma Membrane Expression of Transporters in Cells. AAPS J. 2017 Sep;19(5):1377-1386.

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.

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