

Sulfo-NHS-Biotin

Chemical Properties

CAS No. : 119616-38-5

Formula: C₁₄H₁₈N₃NaO₈S₂

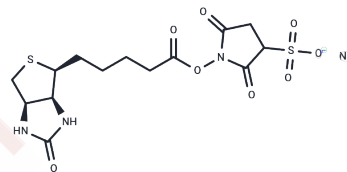
Molecular Weight: 443.42

Storage:

Store at low temperature, The compound is unstable in solution. Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sulfo-NHS-Biotin (Biotin-NHS) is a water-soluble biotinylation reagent used in Biotin-Streptavidin binding reactions. Sulfo-NHS-Biotin is particularly useful for targeting cell surface proteins in Streptavidin-Biotin assays. It can be used for protein detection or immobilization when used in conjunction with streptavidin and Immobilized Streptavidin.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 237.5 mg/mL (535.61 mM), Sonication is recommended. H ₂ O: 20 mg/mL (45.1 mM), The compound is unstable in solution. Please use soon. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2552 mL	11.276 mL	22.552 mL
5 mM	0.451 mL	2.2552 mL	4.5104 mL
10 mM	0.2255 mL	1.1276 mL	2.2552 mL
50 mM	0.0451 mL	0.2255 mL	0.451 mL

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

Pintado CO, Moreno A, Barbancho M, Pérez de la Lastra JM, Llanes D. The beta chain of the GPIIb molecule on ruminant leukocytes and platelets is not labelled by the sulfo-NHS-biotin method. *Vox Sang.* 1995;69(3):248-9.

Wu S, Gao X, Wu D, et al. Motif-guided identification of KRAS-interacting proteins. *BMC biology.* 2024, 22: 264.

Gabant G, Augier J, Armengaud J. Assessment of solvent residues accessibility using three Sulfo-NHS-biotin reagents in parallel: application to footprint changes of a methyltransferase upon binding its substrate. *J Mass Spectrom.* 2008 Mar;43(3):360-70. PubMed PMID: 17968972.

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