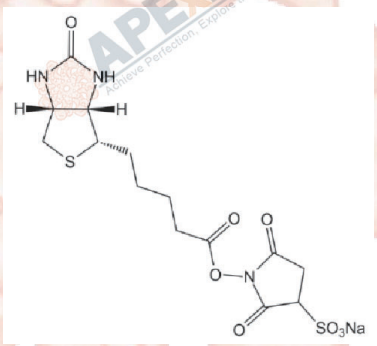
Product Data Sheet

Sulfo-NHS-Biotin



Cat. No.:	A8001
CAS No.:	119616-38-5
Formula:	C14H18N3NaO8S2
M.Wt:	443.4
Synonyms:	Sulfo-NHS Biotin
Target:	Biotinylation Reagents
Pathway:	Amine Biotinylation Reagents
Storage:	Desiccate at -20°C The product is not stable in solution, please dissolve it immediately before use.

Solvent & Solubility

In Vitro

≥22.17 mg/mL in DMSO; insoluble in EtOH; ≥16.8 mg/mL in H2O with ultrasonic

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	2.2553 mL	11.2765 mL	22.5530 mL
5 mM	0.4511 mL	2.2553 mL	4.5106 mL
10 mM	0.2255 mL	1.1276 mL	2.2553 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Amine-reactive biotinyltation reagent, water soluble
IC_{50} & Target	

In Vitro

Cell Viability Assay

Preparation method:	Soluble in water, DMSO or DMF.
Reacting conditions:	2mM, room temperature for 30min
Applications:	Sulfo-NHS-biotin reagents were dissolved at 2 mM in a 50-mM K2HPO4/KH2PO4 buffer (pH 7.5) containing 50 mM of NaCl. They were immediately used in separated assays to modify 1.66 nmol of THUMPa protein. The labeling reactions were incubated 30 min at room temperature. The

		samples were then dialyzed for 15 min against a 50-mM K2HPO4/KH2PO4 buffer (pH 7.5) containing 50 mM of NaCl. TTotal biotin covalently bound to proteins was determined by an avidin-binding assay.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

1. Nathan J. Dwarshuis, Hannah W. Song, et al. "Functionalized microcarriers improve T cell manufacturing by facilitating migratory memory T cell production and increasing CD4/CD8 ratio." bioRxiv. 2019 May 23.
2. Lambert Yue, Christine Sam, et al. "Antibody microarray and immunoblotting analyses of the EGF signaling phosphorylation network in human A431 epidermoid carcinoma cells." Clinical Proteomics & Bioinformatics.2017.

See more customer validations on www.apexbt.com.

References

[1]. Guillaume Gabant, Julie Augier and Jean Armengaud. 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; 43: 360–370.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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