Product Data Sheet

Sulfo-NHS-SS-Biotin

Cat. No.: A8005

CAS No.: 325143-98-4

Formula: C19H27N4NaO9S4

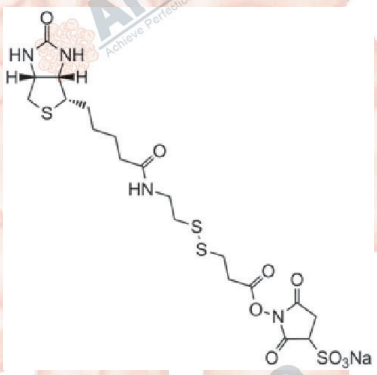
M.Wt: 606.7

Synonyms: Biotin disulfide N-hydroxysulfosuccinimide ester

Target: Biotinylation Reagents

Pathway: Amine Biotinylation Reagents

Storage: Store at -20°CThe product is not stable in solution, please dissolve it immediately before use.



Solvent & Solubility

In Vitro

≥30.33 mg/mL in DMSO; <2.68 mg/mL in EtOH; <2.74 mg/mL in H2O

Preparing Stock Solutions

Concentration \ Mass	1mg	5mg	10mg
1 mM	1.6483 mL	8.2413 mL	16.4826 mL
5 mM	0.3297 mL	1.6483 mL	3.2965 mL
10 mM	0.1648 mL	0.8241 mL	1.6483 mL

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

Biological Activity

Shortsummary	Amine-reactive biotinylation reagent, mid-length
IC_{50} & Target	

In Vitro

Cell Viability Assay

Preparation method：	Soluble in water, DMSO or DMF.
Reacting conditions:	1 mg/ml, 15minutes on ice
Applications:	Cells in monolayer culture (1.5 × 106) were washed three times with ice-cold PBS and then treated with sulfo-NHS-SS-biotin (1mg/mL) for 15 minutes on

		ice. Biotinylation reactions were terminated with 100 mmol/L glycine in PBS. After washing with PBS, cell extracts were prepared in radioimmunoprecipitation assay (RIPA) buffer (20 mmol/L sodium phosphate, 150 mmol/L NaCl (pH 7.4), 1% NP40, 0.1% SDS, and 0.5% deoxycholic acid) with protease inhibitor cocktail. Biotinylated membrane proteins were precipitated with streptavidin-sepharose. Proteins were eluted with SDS sample buffer, resolved by SDS-PAGE, electrotransferred to polyvinylidene difluoride (PVDF) membranes, and probed with primary antibodies.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

1. Sheridan J.S. Carrington. "Differential Glycosylation of the Inwardly Rectifying Potassium Channel Kir7.1 by G protein-coupled Receptors." Vanderbilt University.2019.
2. Carrington S, Hernandez C, et al. "G protein-coupled receptors differentially regulate glycosylation and activity of the inwardly rectifying potassium channel Kir7.1." J Biol Chem. 2018 Sep 26. pii: jbc.RA118.003238.PMID:30257863
3. Brasher MI, Martynowicz DM, et al. "Interaction of Munc18c and Syntaxin4 facilitates invadopodium formation and extracellular matrix invasion of tumour cells." J Biol Chem. 2017 Aug 10. pii: jbc.M117.807438.PMID:28798239

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References

[1]. Minji Jo, Boryana M. Eastman, Drue L. Webb, et al. Cell Signaling by Urokinase-type Plasminogen Activator Receptor Induces Stem Cell-like Properties in Breast Cancer cells . Cancer Res, 2010;70:8948-8958

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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