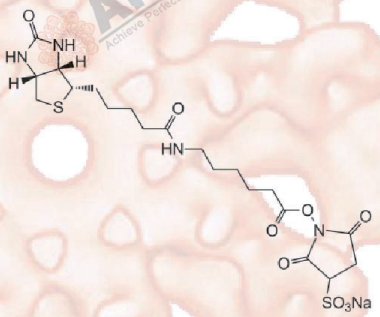
Product Data Sheet

Sulfo-NHS-LC-Biotin



Cat. No.:	A8003
CAS No.:	127062-22-0
Formula:	C20H29N4NaO9S2
M.Wt:	556.6
Synonyms:	Biotinamidohexanoic acid 3-sulfo-N-hydroxysuccinimide ester sodium salt
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

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.7966 mL	8.9831 mL	17.9662 mL
5 mM	0.3593 mL	1.7966 mL	3.5932 mL
10 mM	0.1797 mL	0.8983 mL	1.7966 mL

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

Biological Activity

Shortsummary	Amine-reactive biotinylation reagent, long chain
IC_{50} & Target	

In Vitro

Cell Viability Assay

Preparation method:	Soluble in Water, DMSO or DMF.
Reacting conditions:	0.5 mg/ml, 37ºC for 2 h
Applications:	Sulfo-NHS-LC-Biotin was dissolved in PBS at a concentration of 0.5 mg/ml.

		then it was incubated with cardiomyocytes at 37ºC for 2 h. After that the cells were washed twice in cold PBS with 100 mM glycine and twice in cold PBS alone to remove the excess biotin reagent. To capture biotinylated proteins, 100 µl of streptavidin agarose resin were incubated with each 100 µg of samples for 16 hours at 4ºC. Captured proteins were eluted at 60ºC for 30 min with Laemmli 2X sample buffer which contain 40 mg/mL of dithiothreitol and they were analyzed by Western blot with primary antibodies.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

1.Wu Z, He D, et al. "A bimodal (SERS and colorimetric) aptasensor for the detection of Pseudomonas aeruginosa." Mikrochim Acta. 2018 Oct 31;185(11):528.PMID:30382404

2.Shu F, Chen J, et al. "Cholesterol Crystal-Mediated Inflammation Is Driven by Plasma Membrane Destabilization." Front Immunol. 2018 May 29;9:1163.PMID:29896195

3.Lorin, Charlotte, Isabelle Vögeli, and Ernst Niggli. "Dystrophic cardiomyopathy: role of TRPV2 channels in stretch-induced cell damage." Cardiovascular research 106.1 (2015): 153-162.PMID:25616416

See more customer validations on www.apexbt.com.

References

[1]. Charlotte Lorin, Isabelle Vögeli, Ernst Niggli. Dystrophic cardiomyopathy - role of TRPV2 channels in stretch-induced cell damage. Cardiovascular Research, 2015.

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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