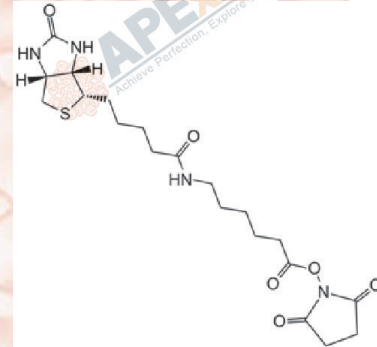


Product Data Sheet

NHS-LC-Biotin

Cat. No.:	A8004
CAS No.:	72040-63-2
Formula:	C ₂₀ H ₃₀ N ₄ O ₆ S
M.Wt:	454.54
Synonyms:	Succinimidyl 6-(biotinamido)hexanoate
Target:	Biotinylation Reagents
Pathway:	Amine Biotinylation Reagents
Storage:	Store at -20°C



Solvent & Solubility

≥ 22.727mg/mL in DMSO, insoluble in EtOH, insoluble in H₂O

In Vitro	Preparing Stock Solutions	Mass			
		Solvent Concentration	1mg	5mg	10mg
		1 mM	2.2000 mL	11.0001 mL	22.0003 mL
		5 mM	0.4400 mL	2.2000 mL	4.4001 mL
		10 mM	0.2200 mL	1.1000 mL	2.2000 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 DMSO or DMF.
	Reacting conditions:	60 mg/ml, room temperature for 1 h.
	Applications:	Fixed cell suspensions of <i>S. aureus</i> were diluted to a 2% cell suspension in 0.2 M NaHCO ₃ , pH 8.3. NHS-LC-biotin freshly dissolved in DMSO at a concentration of 60 mg/ml, was added to the cell suspension subsequently. After gentle tumble mixing for 60min at room temperature, the reaction was stopped by removal of excess biotin via gel filtration over a PD-10 column and

washed extensively in 0.01 mM Tris-buffered 0.15 M NaCl (TBS). Successful protein biotinylation was examining their reactivity with alkaline phosphatase-conjugated streptavidin (AP-STRAV). AP-STRAV binding was detected as a function of pNPP hydrolysis.

In Vivo

Animal experiment

Applications:

Product Citations

1. Zhang X, Qiu M, et al. "Autologous Red Blood Cell Delivery of Betamethasone Phosphate Sodium for Long Anti-Inflammation." *Pharmaceutics*. 2018 Dec 18;10(4). pii: E286.PMID:30567356
2. Zhu J, Lee KY, et al. "Epilepsy-associated gene Nedd4-2 mediates neuronal activity and seizure susceptibility through AMPA receptors." *PLoS Genet*. 2017 Feb 17;13(2):e1006634.PMID:28212375

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References

- [1]. TRUC NGUYEN, BERHANE GHEBREHIWET, AND ELLINOR I. B. PEERSCHKE. Staphylococcus aureus Protein A Recognizes Platelet gC1qR/p33: a Novel Mechanism for Staphylococcal Interactions with Platelets. *INFECTION AND IMMUNITY* 2000, p. 2061–2068.

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 APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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.

APEX BIO Technology

www.apexbt.com

7505 Fannin Street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com