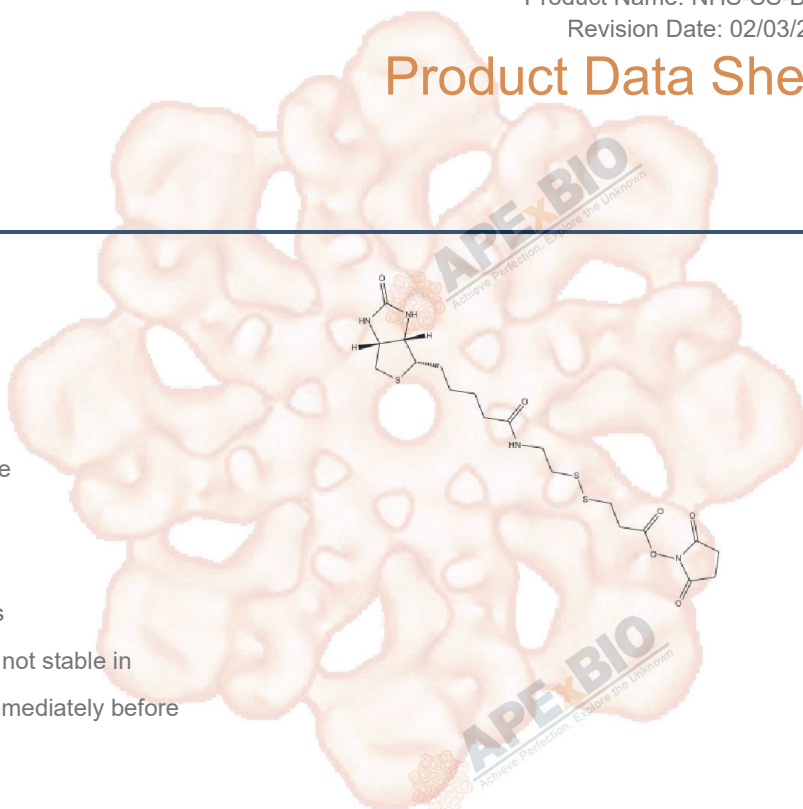


Product Data Sheet

NHS-SS-Biotin

Cat. No.:	A8006
CAS No.:	122266-55-1
Formula:	C ₁₉ H ₂₈ N ₄ O ₆ S ₃
M.Wt:	504.64
Synonyms:	NHS-SS-Biotin, Biotin disulfide N-hydroxysuccinimide ester
Target:	Biotinylation Reagents
Pathway:	Amine Biotinylation Reagents
Storage:	Store at -20°C The product is not stable in solution, please dissolve it immediately before use.



Solvent & Solubility

≥28.79 mg/mL in DMSO; insoluble in H₂O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Mass			
	Solvent	1mg	5mg	10mg
Concentration	1 mM	1.9816 mL	9.9081 mL	19.8161 mL
	5 mM	0.3963 mL	1.9816 mL	3.9632 mL
	10 mM	0.1982 mL	0.9908 mL	1.9816 mL

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

Biological Activity

Shortsummary

Amine-reactive biotinylation reagent, mid-length

IC₅₀ & Target

Cell Viability Assay

In Vitro

Preparation method:	Soluble in DMSO or DMF.
Reacting conditions:	1.5 mg/ml, 4 °C for 1 h
Applications:	Neurons were washed with the artificial cerebrospinal fluid (ACSF) at 37 °C, and incubated with 1.5 ml of 1.5 mg/ml NHS-SS-biotin with gentle shaking at

4 °C for 1 h. After washing, neurons were switched to the neuronal culture medium and incubated at 37 °C. At indicated times of incubation, neurons were cooled to 4 °C and un-endocytosed surface biotin was cleaved by incubating in the glutathione cleavage buffer (50 mM glutathione, 75 mM NaCl, 10 mM EDTA, 1% BSA, and 0.075 N NaOH). Neurons were lysed in the modified RIPA buffer (50 mM Tris-HCl, 150 mM NaCl, 1% NP-40, 0.5% sodium deoxyolate, 1 mM EDTA, and protease inhibitors). Lysates were cleared by centrifugation at 10,000g for 10 min at 4 °C and incubated at 4 °C over-night with 70 µl of 50% streptavidin beads. Endocytosis of ErbB proteins was assayed using cleavable biotin. Bead-associated proteins were subjected to Western blot analysis.

In Vivo

Animal experiment

Applications:

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Yu Liu, Yan-Mei Tao, Ran-Sook Woo, Wen-Cheng Xiong, Lin Mei. Stimulated ErbB4 internalization is necessary for neuregulin signaling in neurons. *Biochemical and Biophysical Research Communications* 354 (2007) 505–510.

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. 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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