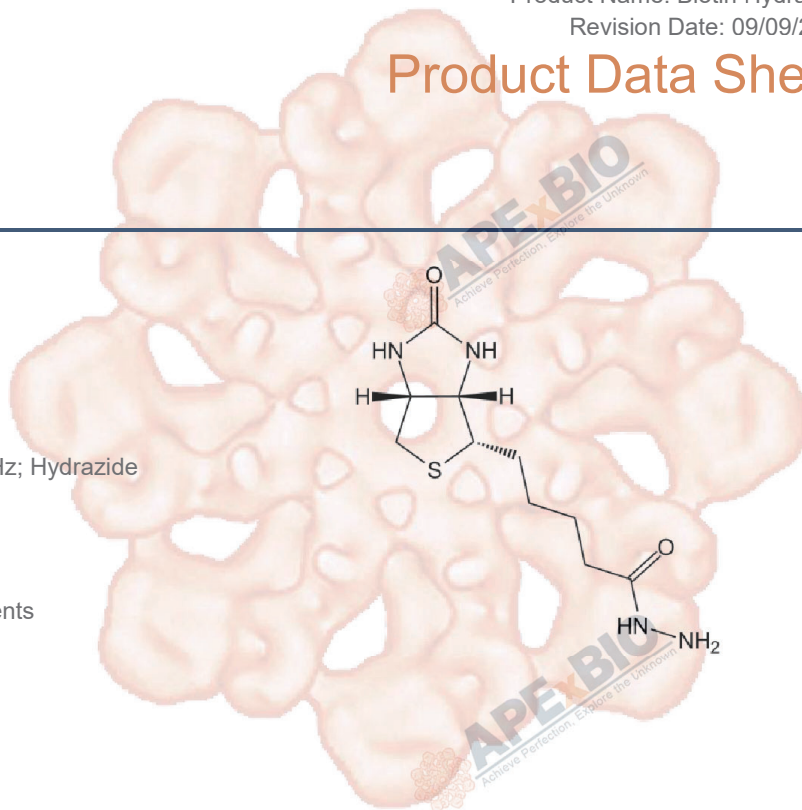


Product Data Sheet

Biotin Hydrazide

Cat. No.:	A8007
CAS No.:	66640-86-6
Formula:	C ₁₀ H ₁₈ N ₄ O ₂ S
M.Wt:	258.3
Synonyms:	(+)-Biotin Hydrazide; Biotin-Hz; Hydrazide Biotin; Biotine Hydrazide
Target:	Biotinylation Reagents
Pathway:	Carbonyl Biotinylation Reagents
Storage:	Store at -20°C



Solvent & Solubility

insoluble in EtOH; ≥ 12.9 mg/mL in DMSO with gentle warming; ≥ 2.98 mg/mL in H₂O with ultrasonic

In Vitro

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	3.8715 mL	19.3573 mL	38.7147 mL
	5 mM	0.7743 mL	3.8715 mL	7.7429 mL
	10 mM	0.3871 mL	1.9357 mL	3.8715 mL

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

Biological Activity

Shortsummary

Carbonyl-reactive biotinylation reagent

IC₅₀ & Target

In Vitro

Cell Viability Assay

Preparation method:	Soluble in DMSO. Dissolve glycoprotein at a concentration of 1-5 mg/mL in cold 100mM Sodium Acetate, pH 5.5.
Reacting conditions:	1 mM, overnight at 4°C
Applications:	One hundred milligrams of human umbilical cord HA was dissolved in 0.1 M Mes, pH 5.0, to a final concentration of 1 mg/ml and allowed to dissolve for at

least 24 h at 4°C prior to the coupling of biotin. Biotin hydrazide was dissolved in DMSO as a stock solution of 100 mM and added to the HA solution to a final concentration of 1 mM. A stock solution of 1-ethyl-3-(3-dimethylaminopropyl) carbodiimide (EDAC) was prepared as a 100 mM stock solution in dH₂O and added to the HA–biotin solution at a final concentration of 30 mM. This solution was left stirred overnight at 4°C. Unlinked biotin and EDAC were removed after the addition of 4M guanidine–HCl. The dialyzed, biotinylated HA (bHA) was aliquoted and stored at 0207C for up to several months.

In Vivo

Animal experiment

Applications:

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Gregory I. Frost and Robert Stern. A Microtiter-Based Assay for Hyaluronidase Activity Not Requiring Specialized Reagents. ANALYTICAL BIOCHEMISTRY 251, 263–269 (1997).

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.

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