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## D-Biotin

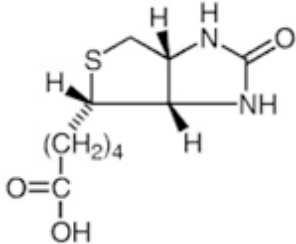
Catalog Number	Packaging Size
B001	1 g
B002	5 g

Storage upon receipt: -20°C

### Introduction

**Biotin** (Known as Vitamin H or Coenzyme R) is a water-soluble B-complex vitamin (vitamin B7). D-biotin binds with high affinity to streptavidin and avidin. Biotin is a coenzyme for carboxylase enzymes, involved in the synthesis of fatty acids, isoleucine, and valine, and in gluconeogenesis.

### Specifications

<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S	
<b>Molecular Weight:</b>	244.31	
<b>CAS Number:</b>	58-85-5	
<b>Storage Conditions:</b>	-20°C	
<b>Shipping Condition:</b>	Room Temperature	

### Applications

Biotinylation reagent

### References:

- [Easily reversible desthiobiotin binding to streptavidin, avidin, and other biotin-binding proteins: uses for protein labeling, detection, and isolation.](#)  
Hirsch JD, Eslamizar L, Filanoski BJ, Malekzadeh N, Haugland RP, Beechem JM, Haugland RP  
Anal Biochem (2002) 308:343-357
- [A SPECTROPHOTOMETRIC ASSAY FOR AVIDIN AND BIOTIN BASED ON BINDING OF DYES BY AVIDIN.](#)  
GREEN NM,  
Biochem J (1965) 94:23C-24C