

## D-Biotin

**Cat:** D8150

**Specification:** 1g /5g /25g

**Storage:** Store at 2-8°C, and it is valid for 3 years.

### Product Information

**CAS:** 58-85-5

**English name:** D-Biotin

**Alias:** Bios II; Biotin; Coenzyme R; Vitamin B7; Vitamin H

**Appearance (Character):** White powder

**Molecular Formula:** C<sub>10</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>S

**Molecular Weight:** 244.31

**Purity:** > 99%

**Grade:** Biotech Grade

**Solubility:** 50mg/ml in 2M NH<sub>4</sub>OH

### Introduction

Biotin is a growth factor in mammalian cell culture and plays multiple immunological purification roles in the avidin/streptavidin-biotin binding mechanism. Biotin, also known as vitamin H or B7, is a water-soluble vitamin B complex, formed by the fusion of a urea-based tetrahydroimidazolone ring with a tetrahydrothioine ring. There is a valeric acid substituent on one carbon atom of the tetrahydrothiophene ring. Biotin is a cofactor in the metabolism of fatty acids and leucine, and plays a role in the production of glucose.

Biotin is essential for cell growth, fatty acid production, and fat and amino acid metabolism. It plays a role in the citric acid cycle, which is a process that produces biochemical energy during aerobic respiration. Biotin not only helps various metabolic reactions, but also helps the transfer of carbon dioxide. Biotin also helps maintain stable blood sugar levels and is often used to strengthen hair and nails.

### Note

1. Unless otherwise specified, the biochemical reagents produced by our company are generally non-sterile packaged. If they are to be used for cell experiments, please conduct pretreatment in advance.
2. The product information is for reference only. If you have any questions, please call 400-968-6088 for consultation.
3. The products are all for scientific research use only. Do not use it for medical, clinical diagnosis or treatment, food and cosmetics, etc. Do not store them in ordinary residential areas.
4. For your safety and health, please wear laboratory clothes, disposable gloves and masks to operate.