



## Glucose dehydrogenase

**Product Number: GDH0601**

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### Shipping and Storage

Suggest sealed storage, with a storage temperature not exceeding -20°C.

### Description

This product is derived from microorganisms and catalyzes the dehydrogenation of glucose to produce gluconic acid, with advantages such as high specific activity and high yield. This product relies on FAD as a coenzyme, which has better stability and substrate specificity than other coenzymes such as NAD and PQQ.

### Application

Glucose dehydrogenase (GDH) is a type of oxidoreductase that catalyzes the oxidation of glucose to form gluconic acid lipids. It has a wide range of applications in fields such as blood glucose detection, biofuel cells, implantable pacemakers, and industrial glucose content monitoring.

### Features

1. Molecular weight: not less than 65kDa.
2. pI: 5.6
3. PH range: 5-9
4. Type: Freeze dried powder.
5. Temperature distribution: When the maximum activity value is 70°C, it is recommended to maintain a temperature range of 37-80°C.
6. Enzyme activity: >300U/mg freeze-dried powder.
7. Appearance: Yellow powder
8. Electrophoretic purity: >95% (SDS-PAGE)

### Unit Definition

The enzyme activity unit (U) is the amount of enzyme that converts one micromole of 2,6-dichlorophenol indigo (DCPIP) per minute at pH 6.5 and 37°C. The enzyme activity values for each batch of products can be found in the corresponding quality inspection report.

### Advantages of restructuring GDH

Recombinant GDH enhances specific activity, increases yield, expands the pH/temperature range, and has better activity. Advanced protein engineering technology and a 28000 liter fermentation platform effectively reduce unit costs, providing a more cost-effective glucose dehydrogenase for biopharmaceutical research and production.

### Stability

1. After receiving the goods, the shelf life is at least 1 year when stored in a dry environment below -20°C.
2. Suggest sealed storage, with a storage temperature not exceeding -20°C
3. Recommended dilution buffer: 10mM Tris (pH 8.0), 5mM NaCl
4. Storage buffer: 10mM Tris (pH 8.0), 5mM NaCl

### Note

1. Please use the specified buffer solution configuration. It is recommended to transport below 4°C and store at -20°C.

**For Research Use Only**



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2. For your safety and health, please wear lab clothes, protective gloves, goggles, etc. when using. This product is for research and development use only and is not suitable for pharmaceutical, household, or other purposes.