

## Glucose Dehydrogenase, Recombinant

Cat. No. NATE-1139

Lot. No. (See product label)

## Introduction

**Description** In enzymology, a glucose 1-dehydrogenase (EC 1.1.1.47) is an enzyme that catalyzes the chemical

reaction:beta-D-glucose + NAD (P)+ $\leftrightarrow$  D-glucono-1,5-lactone + NAD (P)H + H+. The 3 substrates of this enzyme are beta-D-glucose, NAD+, and NADP+, whereas its 4 products are D-glucono-1,5-lactone, NADH, NADPH, and H+. This enzyme belongs to the family of oxidoreductases, specifically those acting

on the CH-OH group of donor with NAD+ or NADP+ as acceptor.

**Applications** GDH can be used as the raw material enzyme in clinic diagnostic of blood glucose.

**Synonyms** EC 1.1.1.47; D-glucose dehydrogenase (NAD (P)+); hexose phosphate dehydrogenase; β-D-glucose:NAD

(P)+ 1-oxidoreductase; glucose 1-dehydrogenase; Glucose dehydrogenase; 9028-53-9

## **Product Information**

**Appearance** White powder, lyophilized

**EC Number** EC 1.1.1.47

*CAS No.* 9028-53-9

Molecular

About 28kDa (SDS-PAGE detection)

Weight

**Purity** 90% (SDS-PAGE test)

**Activity** About 200U/mg

**Buffer** 50mM phosphate buffer, pH7.0

**Unit** 1 unit will catalyze 1umol β-D-glucose oxidizing into D-glucose-δ-lactone per minute at pH 8.0, 37 °C.

Definition

## Storage and Shipping Information

**Storage** 4°C, store at -20°C for long-term preservation.

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