

Glucose Dehydrogenase, Recombinant

Product Information

NATE-1139
GDH, Recombinant
Glucose dehydrogenase
In enzymology, a glucose 1-dehydrogenase (EC 1.1.1.47) is an enzyme that catalyzes the chemical reaction:beta-D-glucose + NAD (P)+↔ 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.
GDH can be used as the raw material enzyme in clinic diagnostic of blood glucose.
White powder, lyophilized
Freeze dried powder
EC 1.1.1.47
About 200U/mg
9028-53-9
About 28kDa (SDS-PAGE detection)
90% (SDS-PAGE test)
1 unit will catalyze 1umol β -D-glucose oxidizing into D-glucose- δ -lactone per minute at pH 8.0, 37 °C.
4°C, store at -20°C for long-term preservation.
50mM phosphate buffer, pH7.0
EC 1.1.1.47; D-glucose dehydrogenase (NAD (P)+); hexose phosphate dehydrogenase; β-D-glucose:NAD (P)+ 1-oxidoreductase; glucose 1-dehydrogenase;

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