

Glucose dehydrogenase (GDH)

Cat. No. GDH-22 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description	GDH (Glucose dehydrogenase): GDH catalyze the dehydrogenation of glucose to produce gluconic acid (lactone), and reduce NAD(P) ⁺ to NAD(P)H, with NAD(P) ⁺ as electron receptor. GDH is often used for the regeneration of coenzyme NAD(P)H in biocatalysis fields with other main enzyme.
Applications	1. Normally, the reaction system should include substrate, buffer solution, enzyme, and coenzyme. 2. If GDH is used for coenzyme regeneration, the main enzyme is necessary, and the reaction system should be designed according to the main enzyme.
Notes	Never contact with extreme conditions such as: high temperature, high/low pH and high concentration organic solvent.
Storage	Keep 2 years below -20 centigrade.
Advantages	1. High substrate specificity. 2. High conversion. 3. Less by-products. 4. Mild reaction conditions. 5. Environmentally friendly.

GENE INFORMATION

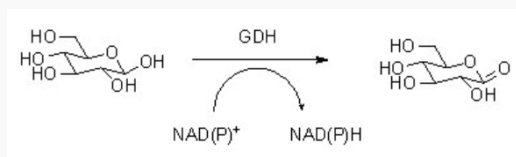
Official Symbol	GDH
Synonyms	Glucose dehydrogenase; GDH

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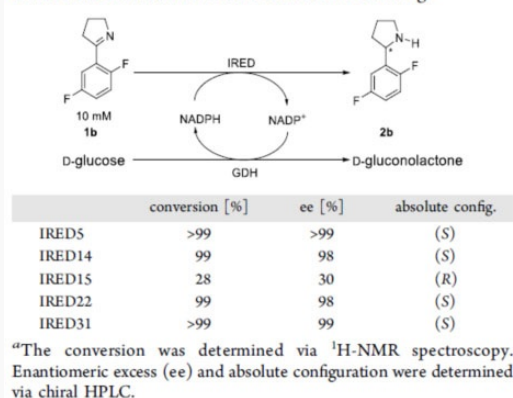
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Catalytic reaction type



Application Examples

Initial Biotransformations of 1b on an Analytical Scale with Prioritized IREDs from the Screening^a



Biocatalysis synthesis of imine to chiral amine with imine reductase