

Native β -Hydroxybutyrate Dehydrogenase (β -HBDH) from Microorganism

Product Information

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| Cat# | BDE-036 |
| Specification | 5 KU, 50 KU, 100 KU |
| Description | β -Hydroxybutyrate Dehydrogenase (β -HBDH) catalyzes the dehydrogenation of β -hydroxybutyrate and is a key enzyme for the detection of diabetic ketoacidosis. |
| Applications | Used in blood ketone body assay kits for the rapid diagnosis of diabetic ketoacidosis. |
| CAS No. | 9028-38-0 |
| Enzyme Commission Number | EC 1.1.1.30 |
| Form | White amorphous lyophilized powder |
| Source | Microorganism |
| Activity | ≥ 300 U/mg |
| Unit Definition | One unit is defined as the amount of enzyme required to produce 1 μ mol of NADH per minute under specified assay conditions. |
| Molecular Weight | 27 kDa (SDS-PAGE) |
| Purity | $\geq 90\%$ |
| Optimum pH | 8.5 |
| Optimum temperature | 60°C |
| pH Stability | 5.0-10.0 (25°C, 16 h) |
| Thermal Stability | < 50°C (pH 8.5, 30 min) |
| Isoelectric Point | 6.1 |
| Km Value | 1.46 $\times 10^{-2}$ M (D-3-Hydroxybutyrate), 9.5 $\times 10^{-5}$ M (NAD ⁺) |
| Inhibitors | Hg ²⁺ , Ag ⁺ , SDS |



Creative Enzymes

Diagnostic Enzymes

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Storage

Store at -25°C to -15°C for 12 months to maintain at least 90% activity.

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