# Recombinant Thermophilic bacterium GDH Protein

**Cat. No.** GDH-04H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Thermophilic bacterium GDH Protein was Fast and sustainable production in a non-pathogenic strain of E. coli.<br>Microbial origin: Free from any animal or plant related contamination.<br>CAS number: 9001-46-1<br>EC Number: 1.4.1.2 |
| **Species** | Thermophilic bacterium |
| **Source** | E.coli |
| **Description** | GDH is an oxidoreductase enzyme which relates carbon and nitrogen metabolism. It catalyzes the reduction of α-ketoglutarate and ammonia to L-glutamate and vice versa. This enzyme is a robust and ideal candidate for research use, and industrial applications in the diagnostics and food industries. |
| **Form** | Lyophilized powder |
| **Bio-activity** | > 90 U/mg protein |
| **Molecular Mass** | 270 kDa; Homohexameric ( 45 kDa per subunit) |
| **Unit definition** | One unit is defined as the conversion of 1μmol of α-ketoglutarate into glutamate, in 1 minute at 50 centigrade at pH 8.0. |
| **Stability** | At -20 centigrade, it keeps 100% of its activity after one year |

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| **pH Range** | 7-8.5 (optimal: 8) |
| **Temperature Range** | 20-70 centigrade (optimal: 50 centigrade) |
| **Storage** | At -20 centigrade. |
| **Concentration** | > 13% (w/w) |
| **Storage Buffer** | 0.05 M Tris base and 0.5 M NaCl (before lyophilizing) |
| **Shipping** | Cold packs |

## GENE INFORMATION

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| **Official Symbol** | GDH |
| **Synonyms** | GDH; Glutamate Dehydrogenase |

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