

Recombinant Glutamate Dehydrogenase (GLDH)

Product Information

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| Cat# | BDE-044 |
| Description | GLDH is a mitochondrial matrix enzyme that catalyzes the reversible conversion of glutamate to α -ketoglutarate. As an allosteric enzyme, it is generated through several pathways, with coupled dehydrogenation being the most significant. |
| Applications | Used in blood ammonia and liver function-related test kits, enabling quantitative determination through a coupling reaction. |
| Enzyme Commission Number | EC 1.4.1.2 |
| Form | White lyophilized powder, or liquid |
| Source | Recombinant protein expression |
| Activity | ≥ 300 U/mg |
| Unit Definition | One unit is defined as the amount of enzyme required to consume 1 μ mol of NADH per minute under specified assay conditions (pH 8.3, 37 °C). |
| Molecular Weight | 65 kDa (SDS-PAGE) |
| Purity | $\geq 90\%$ by SDS-PAGE |
| Storage Buffer | Tris-Cl buffer, pH 8.0 |
| Storage | Store at 4°C for one year or at -20°C for two years (it is recommended to store in smaller portions and avoid repeated freeze-thaw cycles as much as possible). |