

Recombinant Thermophilic bacterium GDH Protein

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

SPECIFICATION

Product Overview	Recombinant Thermophilic bacterium GDH Protein was Fast and sustainable production in a non-pathogenic strain of E. coli. Microbial origin: Free from any animal or plant related contamination. CAS number: 9001-46-1 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 1 μ mol 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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	
Official Symbol	GDH
Synonyms	GDH; Glutamate Dehydrogenase

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