

Glutamate Dehydrogenase from Thermophilic Bacterium, recombinant

Cat. No. NATE-1701

Lot. No. (See product label)

Introduction

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.

Synonyms glutamate dehydrogenase; glutamic dehydrogenase; glutamate dehydrogenase (NAD+); glutamate

oxidoreductase; glutamic acid dehydrogenase; L-glutamate dehydrogenase; NAD+-dependent glutamate dehydrogenase; NAD+-dependent glutamic dehydrogenase; NAD+-glutamate dehydrogenase; NAD+-linked glutamate dehydrogenase; NAD+-specific glutamic dehydrogenase; NAD+-specific glutamate dehydrogena

oxidoreductase; NADH-linked glutamate dehydrogenase; GLDH; EC 1.4.1.2

Product Information

Species Thermophilic Bacterium

Source E. coli

Form Lyophilized powder

EC Number EC 1.4.1.2

CAS No. 9001-46-1

Molecular

270 kDa; Homohexameric (45 kDa per subunit)

Weight

Activity > 90 U/mg protein

Concentration Protein concentration: > 13% (w/w)

pH Stability 7-8.5

Optimum pH 8

Thermal

20-70°C, Maintains over 85% of its activity for 8 hours at 50°C.

stability

Optimum 50°C

temperature

Unit One unit is defined as the conversion of 1umol of α -ketoglutarate into glutamate, in 1 minute at 50°C

Definition at pH 8.0

Storage and Shipping Information

Storage at -20 °C

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com 1/1