

Glutamate dehydrogenase (NADP dependent) from Proteus sp

Product Code: 182538

EC: 1.4.1.4

SKU: 182538

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS

EC 1.4.1.4

Product name: L-Glutamate:NADP+ oxidoreductase (deaminating)

Appearance 50mM Tris buffer solution at pH 7.8 with 0.05% NaN₃ and 5mM EDTA

Activity > 9000 U/ml

Contaminants NADPH oxidase ≤ 0.01 %, Gluthathione reductase ≤ 0.01 %

Stabilizer EDTA

Stability Stable at 2-8°C for at least 6 months

Molecular weight Approx. 300,000

Isoelectric point 4.6

Michaelis constants 1.1×10^{-3} M (NH₃), 3.4×10^{-4} M (α -Ketoglutarate), 1.5×10^{-5} M (NADP⁺)
 1.2×10^{-3} M (L-Glutamate), 1.4×10^{-5} M (NADPH)

Structure 6 subunits per mol of enzyme

Inhibitors Heavy metals, PCMB, Pyridine, 4-4'-dithiopyridine, 2-2'-dithiopyridine

Optimum pH 8.5 (α -KGàL-Glu), 9.8 (L-Gluàà-KG)

Optimum temperature 45°C (α -KGàL-Glu), 45-55°C (L-Gluàà-KG)

pH stability 6.0 – 8.5 (25°C, 20hr)

Thermal stability Below 50°C (pH 7.4, 10min)