

**Glutamate dehydrogenase (NADP dependent) from Proteus sp**

**Product Code:** 182538

**EC:** 1.4.1.4

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**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% NaN<sub>3</sub> 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  $1.1 \times 10^{-3}$  M (NH<sub>3</sub>),  $3.4 \times 10^{-4}$  M ( $\alpha$ -Ketoglutarate),  $1.5 \times 10^{-5}$  M (NADP<sup>+</sup>)  
 $1.2 \times 10^{-3}$  M (L-Glutamate),  $1.4 \times 10^{-5}$  M (NADPH)

Structure 6 subunits per mol of enzyme

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

Optimum pH 8.5 ( $\alpha$ -KGàL-Glu), 9.8 (L-Gluàa-KG)

Optimum temperature 45°C ( $\alpha$ -KGàL-Glu), 45-55°C (L-Gluàa-KG)

pH stability 6.0 - 8.5 (25°C, 20hr)

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