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L-谷氨酸脱氢酶 (NADP型)

产品名称 L-谷氨酸脱氢酶 (NADP型)
英文别名 L-Glutamate:NADP+ oxidoreductase (deaminating)
货号 S55625
规格或纯度 >60 U/mg

产品介绍

Application

This enzyme is useful for enzymatic determination of NH_3 , α -ketoglutaric acid and L-glutamic acid, and for assay of leucine aminopeptidase and urease. This enzyme is also used for enzymatic determination of urea when coupled with urease (URH-201) in clinical analysis. In vitro, various activity assays of this enzyme examine the conversion of α -ketoglutarate to L-glutamate, in the presence of excess ammonium ions (NH_4^+) and NADPH.

physical property

Isoelectric point : 4.6

Michaelis constants : $1.1 \times 10^{-3}\text{M}$ (NH_3), $3.4 \times 10^{-4}\text{M}$ (α -Ketoglutarate)

$1.2 \times 10^{-3}\text{M}$ (L-Glutamate), $1.4 \times 10^{-5}\text{M}$ (NADPH), $1.5 \times 10^{-5}\text{M}$ (NADP+)

Structure : 6 subunits (M.W.50,000) per mol of enzyme

Inhibitors : Hg^{++} , Cd^{++} , p-chloromercuribenzoate, pyridine, 4-4'-dithiopyridine, 2,2'-dithiopyridine

Optimum pH : 8.5 (α -KG $\rightarrow$ L-Glu) 9.8 (L-Glu $\rightarrow\alpha$ -KG)

Optimum temperature : 45°C (α -KG-L-Glu) 45-55°C (L-Glu $\rightarrow\alpha$ -KG)

pH stability : pH 6.0 - 8.5 (25°C, 20hr)

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

有效期: 36个月有效; 2-8°C保存。