

Native Proteus sp. Glutamate Dehydrogenase (NADP-dependent)

Product Information

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| Molecular Weight approx. 300 kDa | Contaminants | · · · · · · · · · · · · · · · · · · · |
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Fax:1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA



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| Isoelectric point | 4.6 |
|---------------------|---|
| pH Stability | pH 6.0-8.5 (25°C, 20hr) |
| Michaelis Constant | $1.1\times10^{-3}M$ (NH ₃), $3.4\times10^{-4}M$ (α -Ketoglutarate), $1.2\times10^{-3}M$ (L-Glutamate), $1.4\times10^{-5}M$ (NADPH), $1.5\times10^{-5}M$ (NADP+) |
| Structure | 6 subunits (M.W.50,000) per mol of enzyme |
| Optimum pH | 8.5 (α-KG→L-Glu) 9.8 (L-Glu→α-KG) |
| Optimum temperature | 45°C (α-KG→L-Glu) 45-55°C (L-Glu→α-KG) |
| Thermal stability | below 50°C (pH 7.4, 10min) |
| Stability | Stable at 5°C for at least 6 months |
| Stabilizers | Ethylenediaminetetraacetic acid (EDTA) |
| Inhibitors | Hg**, Cd**, p-chloromercuribenzoate, pyridine, 4-4'-dithiopyridine, 2,2'-dithiopyridine |
| Synonyms | glutamate dehydrogenase (NADP+); glutamic dehydrogenase; dehydrogenase; glutamate (nicotinamide adenine dinucleotide (phosphate)); glutamic acid dehydrogenase; L-glutamate dehydrogenase; L-glutamic acid dehydrogenase; NAD(P)-glutamate dehydrogenase; NAD(P)H-dependent glutamate dehydrogenase; glutamate dehydrogenase (NADP); EC 1.4.1.4; GLDH |

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