Recombinant Human Enolase 2 (Gamma, Neuronal), His-tagged

Cat. No. ENO2-43H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Neuron Specific Enolase is expressed in*E. coli*containing 433 amino acids 2-434 fused to an amino terminal hexahistidine tag. The NSE is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	2-434 a.a.
Description	NSE is the γγ isoform of the glycolytic enzyme enolase and is expressed primarily in neurons, in normal and neoplastic neuroendocrine cells. NSE is a highly soluble cytoplasmic protein that is readily secreted into the CSF and serum following tissue damage. NSE shows neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons and binds in a calcium-dependent manner to cultured neocortical neurons promoting cell survival.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 95% as determined by SDS-PAGE. Single band on Western Blot.
Formulation	Enolase 2 is supplied in 1x Laemmli Buffer (25 mM Tris-HCl pH6.8, 50 mM DTT, 1%(w/v) SDS, 0.1%(w/v) Bromophenol Blue and 2.5% Glycerol).

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Applications	Recombinant Human NSE can be used directly as a positive control in Western blotting, ELISA, immunoprecipitation and other immunological experiments. The biological activity of this product has not yet been tested.
Stability	Store at 4°C if entire vial will be used within 1-2 weeks. Store, frozen at -20°C for longer periods of time. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	ENO2 enolase 2 (gamma, neuronal) [Homo sapiens]
Synonyms	ENO2; enolase 2 (gamma, neuronal); NSE; EC=4.2.1.11; Gamma-enolase;2-phospho-D-glycerate hydro-lyase; Neural enolase; Neuron-specific enolase; Enolase 2; neuron specific gamma enolase; 2-phospho-D-glycerate hydrolyase; Neuron-specific enolase; neurone-specific enolase
Gene ID	2026
mRNA Refseq	NM_001975
Protein Refseq	NP_001966
MIM	131360
UniProt ID	P09104
Chromosome Location	12p13
Pathway	Biosynthesis of alkaloids derived from histidine and purine; Biosynthesis of alkaloids derived from ornithine, lysine and nicotinic acid; Biosynthesis of alkaloids derived from

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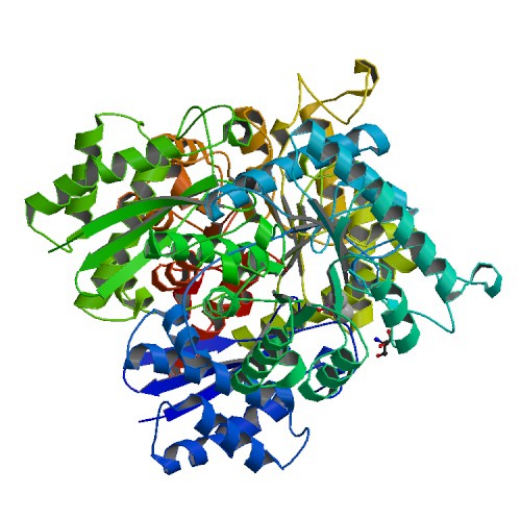
	shikimate pathway; Biosynthesis of alkaloids derived from terpenoid and polyketide; Biosynthesis of phenylpropanoids; Biosynthesis of plant hormones; Biosynthesis of terpenoids and steroids; Glycolysis / Gluconeogenesis; Metabolic pathways; RNA degradation; Diabetes pathways; Metabolism of carbohydrates
Function	lyase activity; magnesium ion binding; phosphopyruvate hydratase activity; protein heterodimerization activity; protein homodimerization activity
PDB rendering based on 1te6.	

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