

Active Recombinant Human ENO2

Cat. No. ENO2-28411TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant NSE was expressed in E.coli and purified by conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-434aa
Description	This gene encodes one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in mature neurons and cells of neuronal origin. A switch from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates.
Form	Liquid in 20 mM Tris pH 7.5, 0.1 M KCl, 5 mM MgSO ₄
Bio-activity	Specific activity: > 8 units/ml. One unit will convert 1.0 umole of 2-phosphoglycerate to phospho(enol)pyruvate per minute at pH7.5 at 25°C.
Molecular Mass	47 kDa (434 aa), confirmed by MALDI-TOF.
AA Sequence	MSIEKIWARE ILDSRGNPTV EVDLYTAKGL FRAAVPSGAS TGIYEALRLR DGDKQRYLGK GVLKAVDHIN STIAPALISS GLSVVEQEKLDNLMLELDGT ENKSKFGANA ILGVSLAVCK AGAAERELPL YRHIAQLAGN SDLILPVPAF NVINGGSHAG NKLAMQEFMI LPVGAESFRDAMRLGAEVYH TLKGVIKDKY

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GKDATNVGDE GGFAPNILEN SEALELVKEA IDKAGYTEKI VIGMDVAASE
 FYRDGKYDLD FKSPTDPSRYITGDQLGALY QDFVRDYPVV SIEDPFDQDD
 WAAWSKFTAN VGIQIVGDDL TVTNPKRIER AVEEKACNCL LLKVNQIGSV
 TEAIQACKLAQENGWGMVS HRSGETEDTF IADLVVGLCT GQIKTGAPCR
 SERLAKYNQL MRIEEELGDE ARFAGHNFRN PSVL

Endotoxin < 1.0 Eu per 1 microgram of protein (determined by LAL method)

Purity > 95% by SDS - PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ENO2 enolase 2 \(gamma, neuronal\) \[Homo sapiens \(human\) \]](#)

Official Symbol ENO2

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](#)

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MIM	131360
UniProt ID	P09104
Chromosome Location	12p13
Pathway	Biosynthesis of amino acids; Carbon metabolism; Gluconeogenesis
Function	magnesium ion binding; phosphopyruvate hydratase activity

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