

## ENO1 Human

**Description:** The ENO1 Human Recombinant protein is a single, non-glycosylated polypeptide chain produced in E. coli, having a molecular weight of 47.1kDa and containing 434 amino acids (1-434 a.a.).

**Catalog #:** ENPS-459

For research use only.

**Synonyms:** NNE, PPH, MPB1, MBP-1, ENO1L1, ENO1, Alpha-Neuron Specific Enolase, Neuron Specific Enolase-Alpha, 2-phospho-D-glycerate hydro-lyase, Non-neural Neuron Specific Enolase, Neuron Specific Enolase 1, MPB-1, Phosphopyruvate hydratase, C-myc promoter-binding p

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MSILKIHARE IFDSRGNPTV EVDLFTSKGL FRAAVPSGAS  
TGIYEALRLR DNDKTRYMGK GVSKAVEHIN KTIAPALVSK KLVNTEQEKI DKLMIEMDGT  
ENKSKFGANA ILGVSLAVCK AGAVEKGVPL YRHIADLAGN SEVILPVPAF NVINGGSHAG  
NKLAMQEFMI LPVGAANFRE AMRIGAEVYH NLKNVIKEY GKDATNVGDE GGFAPNILEN  
KEGLELLKTA IG

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The ENO1 protein solution is formulated in 20mM Tris-HCl pH-7.5, 1mM MgSO4 and 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

ENO1 is a homodimeric soluble protein that encodes a smaller monomeric structural lens protein, tau-crystallin. ENO1 is a glycolytic enzyme expressed in mainly all tissues. ENO1 isoenzyme full length protein is found in the cytoplasm. The shorter protein is formed from another translation start that is restricted to the nucleus, and binds to a component in the c-myc promoter. ENO1 is involved in anaerobic metabolism under hypoxic conditions and plays a role as a cell surface plasminogen receptor during tissue invasion. Irregular expression of Neuron Specific Enolase-1 is linked with tumor progression in several cases of breast and lung cancer. Neuron Specific Enolase-1 is as an auto antigen associated with Hashimoto's encephalopathy and severe asthma. ENO1 is the target protein of serum anti-endothelial antibody in Behcet's disease.

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