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**Product Data Sheet**


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Product Name: ENO1 Human  
 Cat. No.: GP21596  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NNE; PPH; MPB1; MBP-1; ENO1L1; ENO1; Alpha-Enolase; Enolase-Alpha; 2-phospho-D-glycerate hydro-lyase; Non-neural enolase; Enolase 1; MPB-1; Phosphopyruvate hydratase; C-myc promoter-binding protein; Plasminogen-binding protein; MBPB1.		
Amino Acid Sequence	MSILKIHARE IFDSRGNPTV EVDLFTSKGL FRAAVPSGAS TGIYEALELR DNDKTRYMGK GVSKAVEHIN KTIAPALVSK KLVNTEQEKI DKLMIEMDGT ENKSKFGANA ILGVSLAVCK AGAVEKGVPL YRHIADLAGN SEVILPVPF NVINGGSHAG NKLAMQEFMI LPVGAANFRE AMRIGAEVYH NLKNVIKEY GKDATNVGDE GGFAPNILEN KEGLELLKTA IGKAGYTDKV VIGMDVAASE FFRSGKYDL DFKSPDDPSRY ISPDQLADLY KSFIDYPPV SIEDPFDQDD WGAWQKFTAS AGIQVVGDDL TVTNPKRIAK AVNEKSCNCL LLKVNQIGSV TESLQACKLA QANGWGMVS HRSGETEDTF IADLVVGLCT GQIKTGAPCR SERLAKYNQL LRIIEELGSK AKFAGRNFN PLAK.		
Formulation	The ENO1 protein solution (1mg/ml) is formulated in 20mM Tris-HCl pH-7.5 1mM MgSO4 and 10% glycerol.		

**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 Enolase-1 is linked with tumor progression in several cases of breast and lung cancer. Enolase-1 is as an auto antigen associated with

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Hashimoto's encephalopathy and severe asthma. ENO1 is the target protein of serum anti-endothelial antibody in Behcet's disease.

### Biological Activity

Specific activity is > 20,000pmol/min/ug, and was obtained by measuring the decrease of NAD in absorbance at 340nm resulting from NADH at pH 6.5 at 37°C.

### 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.

### Background

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.).

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