

32-2305: ENO1 Recombinant Protein

Alternative Name : 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.

Description

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

Product Info

Amount : 25 µg
Purification : Greater than 90% as determined by SDS-PAGE.
Content : The ENO1 protein solution (1mg/ml) is formulated in 20mM Tris-HCl pH-7.5 1mM MgSO4 and 10% glycerol.
Storage condition : 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.
Amino Acid : MSILKIHARE IFDSRGNPTV EVDLFTSKGL FRAAVPSGAS TGIYEALRLR DNDKTRYMGK
 GVSKAVEHIN KTIAPALVSK KLVNTEQEKI DKLMIEMDGT ENKSKFGANA ILGVSLAVCK
 AGAVEKGVPL YRHIADLAGN SEVILPVPAF NVINGGSHAG NKLAMQEFMI LPVGAANFRE
 AMRIGAEVYH NLKNVIKEY GKDATNVGDE GGFAPNILEN KEGLELLKTA IGKAGYTDKV
 VIGMDVAASE FFRSGKYDLD FKSPDDPSRY ISPDQLADLY KSFIDYPPVV SIEDPFDQDD
 WGAWQKFTAS AGIQVVGDDL TVTNPCKRIAK AVNEKSCNCL LLKVNQIGSV TESLQACKLA
 QANGWGMVS HRSGETEDTF IADLVVGLCT GQIKTGAPCR SERLAKYNQL LRIIEELGSK
 AKFAGRNFNRN PLAK.

Application Note

Specific activity: > 13 units/ml. One unit will convert 1.0 umole of 2-phosphoglycerate to phospho(enol)pyruvate per minute at pH7.5 at 25°C.

