

32-6736: ENO1 Mouse

Application : Functional Assay

Alternative Name : 0610008115, AL022784, Eno-1, MBP-1, Alpha-enolase, 2-phospho-D-glycerate hydro-lyase, Enolase 1, Non-neural enolase, NNE, Eno1.

Description

Source: Escherichia Coli.

Sterile filtered colorless solution.

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.

ENO1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 457 amino acids (1-434 a.a) and having a molecular mass of 24kDa. ENO1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : ENO1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.5), 40% glycerol and 0.1M NaCl.

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 : MGSSHHHHH SSGLVPRGSH MGSMILRIH AREIFDSRGN PTVEVDLYTA KGLFRAAVPS GASTGIYEAL ELRDNDKTRF MGKGVSQAVE HINKTIAPAL VSKKVNVEQ EKIDKLIEM DGTEKSKFG ANAILGVSLA VCKAGAVEKG VPLYRHIADL AGNPEVILPV PAFNVINGGSHAGNKLAMQE FMILPVGASS FREAMRIGAE VYHNLKNVIK EKYGKDATNV GDEGGFAPNI LENKEALELL KTAIAKAGYT DQVVIGMDVA ASEFYRSGKY DLDFKSPDDP SRYITPDQLA DLYKSFVQNY PVVSIEDPFD QDDWGAWQKF TASAGIQVVG DDLTVTNPKR IAKAASEKSCNCLLLKVNQI GSVTESLQAC KLAQSNWGV MVSHRSGETE DTFIADLVVG LCTGQIKTGA PCRSERLAKY NQILRIEEL GSKAKFAGRS FRNPLAK

Application Note

Specific activity is greater than 6,000 pmol/min/ug, and is defined as the amount of enzyme that convert 1.0 pmole of 2-phosphoglycerate to phosphoenolpyruvate per minute at pH 6.5 at 37C in a couple system with PK and LDH.