
Product Data Sheet

Product Name: ENO1 Mouse
 Cat. No.: GP21597
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	0610008115; AL022784; Eno-1; MBP-1; Alpha-enolase; 2-phospho-D-glycerate hydro-lyase; Enolase 1; Non-neural enolase; NNE; Eno1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSILRIH AREIFDSRGN PTVEVDLYTA KGLFRAAVPS GASTGIYEAL ELRDNDKTRF MGKGVSQAVE HINKTIAPAL VSKKVVVEQ EKIDKLMIE M DG TENKSKFG ANAILGVSLA VCKAGAVEKG VPLYRHIADL AGNPEVILPV PAFNVINGGSHAGNKLAMQE FMILPVGASS FREAMRIGAE VYHNLKNVIK EKYGKDATNV GDEGGFAPNI LENKEALELL KTAIAKAGYT DQVVIGMDVA ASEFYRSGKY DLDFKSPDDP SRYITPDQLA DLYKSFVQNY PVVSIEDPFD QDDWGAWQKF TASAGIQVVG DDLTVTNPKR IAKAASEKSCNCLLLKVNQI GSVTESLQAC KLAQSNWGWV MVSHRSGETE DTFIADLVVG LCTGQIKTGA PCRSERLAKY NQILRIEEEL GSKAKFAGRS FRNPLAK		
Formulation	ENO1 protein solution (1mg/ml) containing 20mM Tris-Hcl buffer (pH8.5), 40% glycerol and 0.1M NaCl.		

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 Hashimoto's encephalopathy and severe asthma. ENO1 is the target protein of serum

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

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anti-endothelial antibody in Behcet's disease.

Biological Activity

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.

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

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.

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