

Recombinant human ENO3 protein ab113127

1 Image

Description

Product name	Recombinant human ENO3 protein
Biological activity	Specific activity is > 5,000pmol/min/µg, and was obtained by measuring the decrease of NAD in absorbance at 340nm resulting from NADH at pH 6.5 at 37°C.
Purity	> 95 % SDS-PAGE. ab113127 was purified using conventional chromatography.
Expression system	Escherichia coli
Accession	<u>P13929</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSH MAMQKIFAREILDSRGNP TVEVDLHTAKGR FRAAVPSGASTGYEALERDGDKGRYLGKGVLKAVENIN STLGPALLQK KLSVADQEKVDKFMIELDGTENKSKFGANAILGVSLAVCK AGAAEKGVPL YRHIADLAGNPDLILPVPAFNVINGGSHAGNKLAMQEFMIL PVGASSFKE AMRIGAEVYHHLKGVKAKYKDATNVGDEGGFAPNILEN NEALELLKTA IQAAGYPDKVVIGMDVAASEFYRNGKYDLDFKSPDDPAR HITGEKLGELY KSFIGNYPVVSIEDPFDQDDWATWTSFLSGVNIQIVGDDLT VTNPKRIAQ AVEKKACNCLLLKVNQIGSVTESIQACKLAQSNGWGVMMV SHRSGETEDTF IADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEALGDKA IFAGRKFRNPKAK
Predicted molecular weight	49 kDa including tags
Amino acids	1 to 434
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab113127** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

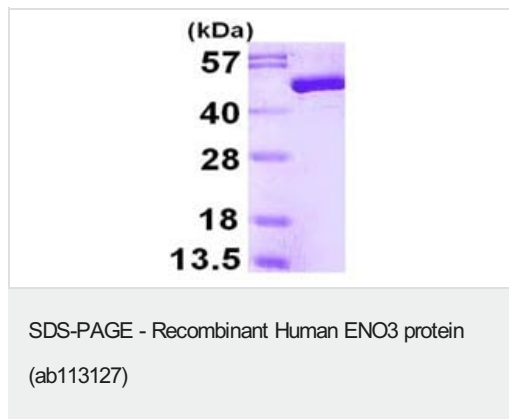
Preparation and Storage

Stability and Storage	<p>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 8.00</p> <p>Constituents: 0.02% DTT, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
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General Info

Function	Appears to have a function in striated muscle development and regeneration.
Tissue specificity	The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons.
Pathway	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 4/5.
Involvement in disease	Defects in ENO3 are the cause of glycogen storage disease type 13 (GSD13) [MIM:612932]. A metabolic disorder that results in exercise-induced myalgias, generalized muscle weakness and fatigability. It is characterized by increased serum creatine kinase and decreased enolase 3 activity. Dramatically reduced protein levels with focal sarcoplasmic accumulation of glycogen-beta particles are detected on ultrastructural analysis.
Sequence similarities	Belongs to the enolase family.
Developmental stage	During ontogenesis, there is a transition from the alpha/alpha homodimer to the alpha/beta heterodimer in striated muscle cells, and to the alpha/gamma heterodimer in nerve cells.
Cellular localization	Cytoplasm. Localized to the Z line. Some colocalization with CKM at M-band.

Images



15% SDS-PAGE analysis of ENO3 protein (ab113127; 3 µg).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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