

Product datasheet

Recombinant Human ENO3 protein ab114838

1 Image

Overview

Product name	Recombinant Human ENO3 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Accession	P13929
Species	Human
Sequence	KTAIQAAAGYPDKVVIGMDVAASEFYRNGKYDLDFKSPDDPARHITGEKLG
Molecular weight	31 kDa including tags
Amino acids	228 to 277

Specifications

Our [Abpromise guarantee](#) covers the use of **ab114838** in the following tested applications.

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

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml. Best used within three months from the date of receipt.

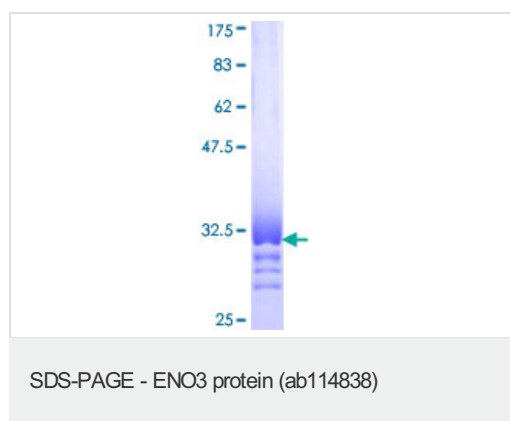
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
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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



ab114838 analysed on a 12.5% SDS-PAGE gel stained with Coomassie Blue.

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