

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 KTAIQAAGYPDKVVIGMDVAASEFYRNGKYDLDFKSPDDPARHITGEKLG
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.

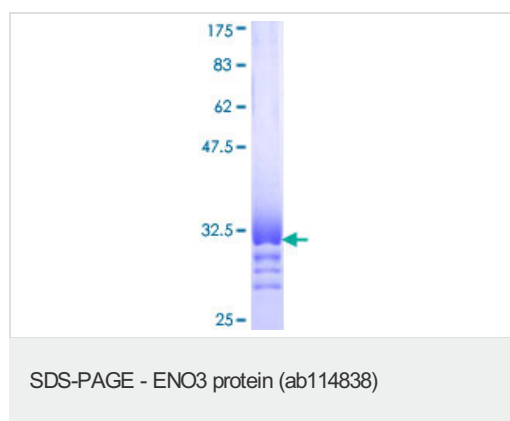
Preparation and Storage

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

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.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors