

Product datasheet

Recombinant Human ENO3 protein ab114838

1 Image

Overview

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<b>Product name</b>	Recombinant Human ENO3 protein
<b>Protein length</b>	Protein fragment

Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">P13929</a>
<b>Species</b>	Human
<b>Sequence</b>	KTAIQAAGYPDKVVIGMDVAASEFYRNGKYDLDFKSPDDPARHITGEKLG
<b>Molecular weight</b>	31 kDa including tags
<b>Amino acids</b>	228 to 277

Specifications

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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.

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

Preparation and Storage

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<b>Stability and Storage</b>	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

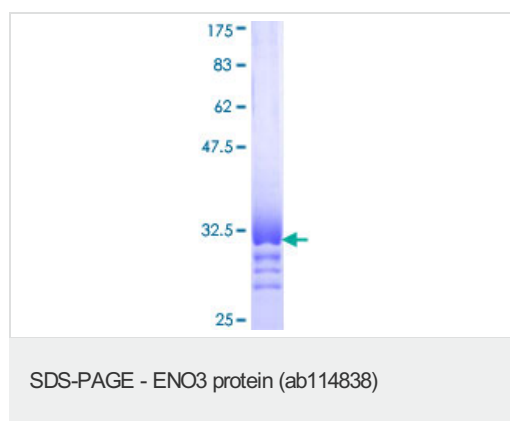
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<b>Function</b>	Appears to have a function in striated muscle development and regeneration.
<b>Tissue specificity</b>	The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons.
<b>Pathway</b>	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 4/5.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the enolase family.
<b>Developmental stage</b>	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.
<b>Cellular localization</b>	Cytoplasm. Localized to the Z line. Some colocalization with CKM at M-band.

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## Images

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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

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- Replacement or refund for products not performing as stated on the datasheet
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