

## Product datasheet

# Recombinant Human ENO1 protein ab88286

### Overview

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|-----------------------|--------------------------------|
| <b>Product name</b>   | Recombinant Human ENO1 protein |
| <b>Protein length</b> | Full length protein            |

### Description

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|---------------|--------------------------|
| <b>Nature</b> | Recombinant              |
| <b>Source</b> | Saccharomyces cerevisiae |

### Amino Acid Sequence

|                 |  |
|-----------------|--|
| <b>Species</b>  | Human  |
| <b>Sequence</b> | <p>MSILKIHAREIFDSRGNPTVEVDLFTSKGLFRAAVPSGASTGIYEALRLR<br/> DNDKTRYM<br/> GKGVSKAVEHINKTIAPALVSKKLVTEQEKIDKLMIEMD<br/> GTENKSKFGANAILGVSL<br/> AVCKAGAVEKGVPLYRHIADLAGNSEVILP<br/> VPAFNVINGGSHAGNKLAMQEFMILPVG<br/> AANFREAMRIGAEVYHNLKN<br/> VIKEYGKDATNVGDEGGFAPNILENKEGLELLKTAIG<br/> KAGYTDKVVV<br/> GMDVAASEFFRSGKYDLDFKSPDDPSRYISPDQLADLYKSFIDYPPV<br/> SIEDPFDQDDWGAWQKFTASAGIQVVGDDLTVTNPKRIAKAVNEKSCNCL<br/> LLKVNQIG<br/> SVTESLQACKLAQANGWGMVSHRSGETEDTFIADLVVGL<br/> CTGQIKTGAPCRSERLAK<br/> YNQLLRIEEELGSKAKFAGRNFNPLAK</p> |

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab88286** 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> | SDS-PAGE   |
| <b>Purity</b>       | > 90 % SDS-PAGE.<br>ab88286 was purified by affinity chromatography. |
| <b>Form</b>         | Liquid   |

## Preparation and Storage

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### Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5

## General Info

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### Function

Multifunctional enzyme that, as well as its role in glycolysis, plays a part in various processes such as growth control, hypoxia tolerance and allergic responses. May also function in the intravascular and pericellular fibrinolytic system due to its ability to serve as a receptor and activator of plasminogen on the cell surface of several cell-types such as leukocytes and neurons. Stimulates immunoglobulin production.

MBP1 binds to the myc promoter and acts as a transcriptional repressor. May be a tumor suppressor.

### 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.

### 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.

### Post-translational modifications

ISGylated.

### Cellular localization

Nucleus and Cytoplasm. Cell membrane. Cytoplasm > myofibril > sarcomere > M line. Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form. ENO1 is localized to the M line.

**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
- Valid for 12 months from date of delivery
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