

## Eno1 active protein

Eno1, 1-434aa, Mouse, His-tag, E Coli (Bioactivity Validated)

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA48970</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

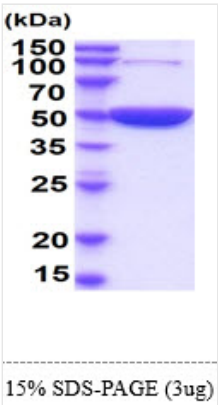
### PRODUCT SYNONYMS

Eno1; 1-434aa; Mouse; His-tag; E Coli (Bioactivity Validated); Alpha-Enolase; 0610008I15; AL022784; Eno-1; MBP-1; Eno1 active protein

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Purity/Purification                             | > 90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form/Format                                     | Liquid. In 20mM Tris-HCl Buffer (pH 8.5) containing 40% glycerol, 0.1M NaCl                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Concentration                                   | 1mg/ml (determined by Absorbance at 280nm) (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Sequence                                        | MGSSHHHHH SSGLVPRGSH MGSMILRIH AREIFDSRGN PTVEVDLYTA KGLFRAAVPS GASTGIYEAL<br>ELRDNDKTRF MGKGVSQAVE HINKTIAPAL VSKKVNVEQ EKIDKLMIEM DGTENKSKFG ANAILGVSLA<br>VCKAGAVEKG VPLYRHIADL AGNPEVILPV PAFNVINGGS HAGNKLAMQE FMILPVGASS FREAMRIGAE<br>VYHNLKNVIK EKYGKDATNV GDEGGFAPNI LENKEALELL KTAIAKAGYT DQVVIGMDVA ASEFYRSGKY<br>DLDFKSPDDP SRYITPDQLA DLYKSFVQNY PVVSIEDPFD QDDWGAWQKF TASAGIQVVG DDLTVTNPKR<br>IAKAASEKSC NCLLLKVNQI GSVTESLQAC KLAQSNWGV MVSHRSGETE DTFIADLVVG LCTGQIKTGA<br>PCRSERLAKY NQILRIEEL GSKAKFAGRS FRNPLAK |
| Sequence Length                                 | 434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Applicable Applications for Eno1 active protein | Enzyme Activity, SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Domain                                          | 1-434aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Biological Activity                             | Specific activity is > 6,000 pmol/min/ug, and is defined as the amount of enzyme that convert 1.0 pmole of 2-phosphoglycerate to phosphoenolpyruvate per minute at pH 6.5 at 37C in a couple system with PK and LDH.                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage                         | Can be stored at 2°C to 8°C for 1 week.<br>For long term storage, aliquot and store at -20°C or -70°C.<br>Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                               |

IMAGES



SDS-PAGE  
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for Eno1 active protein | Eno1 also known as Alpha-Enolase, is one of three enolase isoenzymes and a glycolytic enzyme expressed in most tissues. This protein plays a key role in anaerobic metabolism under hypoxic conditions and may act as a cell surface plasminogen receptor during tissue invasion. Abnormal expression of Eno1 is associated with tumor progression in some cases of breast and lung cancer. It also has been identified as an autoantigen associated with Hashimoto's encephalopathy and severe asthma. Recombinant mouse Eno1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography. |
| Product Categories/Family for Eno1 active protein   | <a href="#">Metabolism</a> ; <a href="#">Adhesion &amp; Movement</a> ; <a href="#">Apoptosis</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| References                                          | Plow EF., et al. (2009) Blood. 113 (22):5371-2. ; Bartholomeusz C., et al. (2008) Cancer Res. 68 (22):9302-10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

NCBI AND UNIPROT INFORMATION

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| NCBI GI #                        | 158853992                               |
| NCBI GeneID                      | 13806                                   |
| NCBI Accession #                 | NP_075608                               |
| NCBI GenBank Nucleotide #        | NM_023119.2                             |
| UniProt Accession #              | P17182; Q99KT7; Q9DCY7                  |
| Molecular Weight                 | 49.5 kDa (457aa) confirmed by MALDI-TOF |
| NCBI Official Full Name          | alpha-enolase                           |
| NCBI Official Synonym Full Names | enolase 1, alpha non-neuron             |
| NCBI Official Symbol             | Eno1                                    |
| NCBI Official Synonym Symbols    | Eno-1; MBP-1; AL022784; 0610008I15      |
| NCBI Protein Information         | alpha-enolase                           |
| UniProt Protein Name             | Alpha-enolase                           |
| UniProt Gene Name                | <b>Eno1</b>                             |
| UniProt Synonym Gene Names       | Eno-1; NNE                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

