

## Alpha-enolase Active Protein | ENO1 active protein

Alpha-enolase, 1-434aa, Human, E Coli (Bioactivity Validated)

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA11794</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

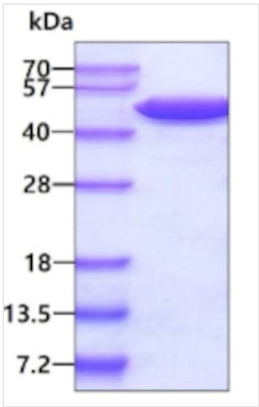
### PRODUCT SYNONYMS

Alpha-enolase; 1-434aa; Human; E Coli (Bioactivity Validated); Non-Neuronal Enolase (NNE); Enolase-1; ENO1; MBP-1; MYC promoter-binding protein 1; PPH; tau-crystallin; 2 phospho D glycerate hydro lyase; Alpha enolase; C myc promoter binding protein; EC 4.2.1.11; ENO1L1; Enolase 1; Enolase 1 (alpha); Enolase 1 (alpha) like 1; MBP 1; MBP1; MBPB1; MPB 1; MPB1; MYC promoter binding protein 1; NNE; Non neural enolase; Phosphopyruvate hydratase; Plasminogen binding protein; ; ENO1 active protein

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purity/Purification                             | > 95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form/Format                                     | Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 1 mM MgSO <sub>4</sub> , 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration                                   | 1 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence Positions                              | 1-434aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence                                        | MSILKIHARE IFDSRGNPTV EVDLFTSKGL FRAAVPSGAS TGIYEALELR DNDKTRYMGK GVSKAVEHIN<br>KTIAPALVSK KLVNTEQEKI DKLMIEMDGT ENKSKFGANA ILGVSLAVCK AGAVEKGVPL YRHIADLAGN<br>SEVILPVPAF NVINGGSHAG NKLAMQEFMI LPVGAANFRE AMRIGAEVYH NLKNVIKEY GKDATNVGDE<br>GGFAPNILEN KEGLELLKTA IGKAGYTDKV VIGMDVAASE FFRSGKYDLD FKSPDDPSRY ISPDQLADLY<br>KSFIDYPPV SIEDPFDQDD WGAWQKFTAS AGIQVVGDDL TVTNPKRIAK AVNEKSCNCL LLKVNQIGSV<br>TESLQACKLA QANGWGMVS HRSGETEDTF IADLVVGLCT GQIKTGAPCR SERLAKYNQL LRIEEELGSK<br>AKFAGRNFRN PLAK |
| Applicable Applications for ENO1 active protein | Enzyme Activity, SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Antigen Species                                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Endotoxin Level                                 | < 1 EU per 1ug of protein (determined by LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Biological Activity                             | Specific activity is > 20,000pmol/min/ug, and was obtained by measuring the decrease of NAD in absorbance at 340nm resulting from NADH at pH 6.5 at 37C.                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                         | Can be stored at 2-8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. 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 | Alpha-enolase, also known as Enolase 1, 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 alpha-enolase 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 human alpha-enolase was expressed in E Coli and purified by using conventional chromatography. |
| Product Categories/Family for ENO1 active protein   | Metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| References                                          | <a href="#">Validating Antibodies to the Cannabinoid CB2 Receptor Antibody Sensitivity Is Not Evidence of Antibody Specificity.</a><br>Yannick Marchalant, Philip W. Brownjohn, Amandine Bonnet, Torsten Kleffmann, John C. Ashton (2014)                                                                                                                                                                                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4503571                                                                                        |
| NCBI GeneID                      | 2023                                                                                           |
| NCBI Accession #                 | NP_001419                                                                                      |
| NCBI GenBank Nucleotide #        | NM_001428.4                                                                                    |
| UniProt Accession #              | P06733; P22712; Q16704; Q4TUS4; Q53FT9; Q53HR3; Q658M5; Q6GMP2; Q71V37; Q7Z3V6; Q8WU71; B2RD59 |
| Molecular Weight                 | 47.1 kDa (434aa), confirmed by MALDI-TOF.                                                      |
| NCBI Official Full Name          | alpha-enolase isoform 1                                                                        |
| NCBI Official Synonym Full Names | enolase 1                                                                                      |
| NCBI Official Symbol             | ENO1                                                                                           |
| NCBI Official Synonym Symbols    | NNE; PPH; MPB1; ENO1L1; HEL-S-17                                                               |
| NCBI Protein Information         | alpha-enolase; c-myc promoter-binding protein-1                                                |
| UniProt Protein Name             | Alpha-enolase                                                                                  |
| UniProt Gene Name                | ENO1                                                                                           |
| UniProt Synonym Gene Names       | ENO1L1; MBPB1; MPB1; 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/alpha-enolase/11794>