

Recombinant human Enolase 3/ENO3 protein

Catalog Number: ATGP1262

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-434aa

UniProt No.

P13929

NCBI Accession No.

AAH17249

Alternative Names

Beta-enolase, MSE

PRODUCT SPECIFICATION

Molecular Weight

49 kDa (454aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl

Purity

> 95% by SDS-PAGE

Biological Activity

Specific activity is > 5,000pmol/min/ug, and was obtained by measuring the decrease of NAD in absorbance at 340nm resulting from NADH at pH 6.5 at 37C.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Beta-enolase, also known as ENO3, is one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in skeletal muscle cells in the adult. ENO3 play a role in converting phosphoglyceric acid to phosphoenolpyruvic acid in the glycolytic pathway. Mutations in its gene can be associated with metabolic

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myopathies that may result from decreased stability of the enzyme. Recombinant human ENO3 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

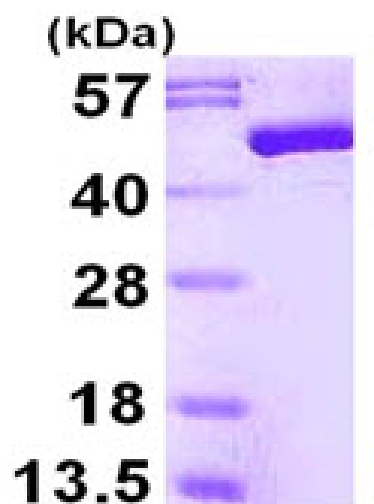
<MGSSHHHHHH SSGLVPRGSH> MAMQKIFARE ILDSRGNPTV EVDLHTAKGR FRAAVPSGAS TGIYEALRLR
DGDKGRYLGK GVLKAVENIN STLGPALLQK KLSVADQEKV DKFMIELDGT ENKSKFGANA ILGVSLAVCK AGAAEKGVPL
YRHIADLAGN PDLILPVPAF NVINGGSHAG NKLAMQEFMI LPVGASSFKE AMRIGAEVYH HLKGVKAKY GKDATNVGDE
GGFAPNILEN NEALELLKTA IQAAGYDPKV VIGMDVAASE FYRNGKYDLD FKSPDDPARH ITGEKLGELY KSFKNYPVV
SIEDPFDQDD WATWTSFLSG VNIQIVGDDL TVTNPKRIAQ AVEKKACNCL LLKVNQIGSV TESIQACKLA QSNWGWVMVS
HRSGETEDTF IADLVVGLCT GQIKTGAPCR SERLAKYNQL MRIEEALGDK AIFAGRKFRN PKAK

General References

Keller A., et al. (1994) *J Neurosci Res.* 38:493-504.
Zhang E., et al. (1997) *Biochemistry.* 36:12526-12534.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)