

# Recombinant human HADHB protein

Catalog Number: ATGP2941

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

34-474aa

### UniProt No.

P55084

### NCBI Accession No.

NP\_000174

### Alternative Names

Trifunctional enzyme subunit beta mitochondrial, Trifunctional enzyme subunit beta, mitochondrial, ECHB, MSTP029, MTPB, TP-BETA

## PRODUCT SPECIFICATION

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### Molecular Weight

49.9 kDa (464aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

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### Description

HADHB is the beta subunit of the mitochondrial trifunctional protein, which catalyzes the last three steps of mitochondrial beta-oxidation of long chain fatty acids. The mitochondrial membrane-bound heterocomplex is composed of four alpha and four beta subunits, with the beta subunit catalyzing the 3-ketoacyl-CoA thiolase activity. This protein can also bind RNA and decreases the stability of some mRNAs. The genes of the alpha and beta subunits of the mitochondrial trifunctional protein are located adjacent to each other in the human genome

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in a head-to-head orientation. Mutations in this gene result in trifunctional protein deficiency. Recombinant human HADHB protein, fused to His-tag at N-terminus, was expressed in *E. coli*.

## Amino acid Sequence

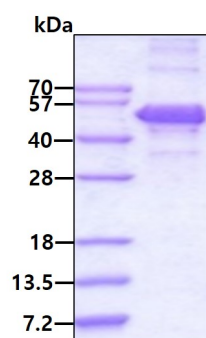
<MGSSHHHHHH SSGLVPRGSH MGS>AAPAVQT KTKKTLAKPN IRNVVVVDGV RTPFLLSGTS YKDLMPHDLA  
RAALTGLLHR TSVPEVVVDY IIFGTVIQEV KTSNVAREAA LGAGFSDKTP AHTVTMACIS ANQAMTTGVG LIASGQCDVI  
VAGGVELMSD VPIRHSRKMR KLMLDLNKAK SMGQRSLIS KFRFNFLAPE LPAVSEFSTS ETMGHSADRL AAFAVSRLE  
QDEYALRSHS LAKKAQDEGL LSDVVPFKVP GKDTVTKDNG IRPSSLEQMA KLKPAFIKPY GTVTAANSSS LTDGASAMLI  
MAEEKALAMG YKPKAYLRDF MYVSQDPKDQ LLLGPTYATP KVLEKAGLTM NDIDAFEFHE AFSGQILANF KAMDSDWFAE  
NYMGRKTKVG LPPLEKFNNW GGSLSLGHPF GATGCRLVMA AANRLRKEGG QYGLVAACAA GGQGHAMIVE AYPK

## General References

Purevsuren J., et al. (2009) Mol Genet Metab, PMID 19699128

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.