

HADHB, 34-474aa, Human, His tag, E.coli

Cat.NO.: TP02395

3th Edition

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

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 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.

Form:Liquid, In 20mM phosphate (pH8.0) containing 10% glycerol

Molecular Weight:49.9 kDa (464aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSAAPAVQTKTKTLAKPNIRNVVVVDGVRTPFLLSGTSYKDLMPHDLARAALT
GLLHRTSVPKEVVDYIIFGTVIQEVKTSNVAREEALGAGFSDKTPAHTVTMACISANQAMTTGVGLIASGQCDVIVAG
GVELMSDVPIRHSRKMRLMLDLNKAQSMGQRLSLISKFRFNFLAPELPAVSEFSTSETMGHSADRLAAAFVSR
EQDEYALRSHSLAKKAQDEGLLSDVVPFKVPGKDTVTKDNGIRPSSLEQMAKLPKPAFIKPYGTVTAANSSFLTDGAS
AMLIMAEKALAMGYKPKAYLRDFMYVSQDPKQLLLGPTYATPKVLEKAGLTMNDIDAFEFHEAFSGQILANFKAM
DSDWFAENYMGRTKVGLPPLEKFNNWGGSLSLGHPFGATGCRLVMAAANRLRKEGGQYGLVAACAAGGQGH
MIVEAYPK

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.