



Recombinant Rat Trifunctional enzyme subunit alpha, mitochondrial (Hadha)

Product Code	CSB-EP731053RA
Abbreviation	Hadha
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q64428
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	SRTH INYGVKGDVA VIRINSPNSK VNTLNKEVQS EFVEVMNEIW ANDQIRSAVL ISSKPGCFVA GADINMLASC TTPQEAARIS QEGQKMFEKL EKSPKPVVAA ISGSCLGGL ELAIACQYRI ATKDRKTVLG VPEVLLGILP GAGGTQRLPK MVGVPAAFDM MLTGRNIRAD RAKKMGLVDQ LVDPLGPGIK SPEERTIEYL EEVAVNFAKG LADRKVSAKQ SKGLMEKLTS YAMTIPFVRQ QVYKTVEEKV KKQTKGLYPALPKIIDAVKT GLEQGNDAAGY LAESEKFGEL ALTKEKALM GLYNGQVLCK KNKFGAPQKT VQQLAILGAG LMGAGIAQVS VDKGLKTLTK DTTVTGLGRG QQQVFKGLND KVKKKALTSF ERDSIFSNI GQLDYKGFEK ADMVIEAVFE DLAVKHVKLK EVESVTPEHC IFASNTSALP INQIAAVSQR PEKVIGMHYF SPVDKMQLE IITDKTSKD TTASAVAVGL KQGVIIIVK DPGGFYTTRC LAPMMSEVIR ILQEGVDPKK LDALTTGFGF PVGAATLADE VGIDVAQHVA EDLGKAFGER FGGGSVELLK LMVSKGFLGR KSGKGFYIYQ SGSKNKNLNS EIDNILVNLR LPAKPEVSSD EDIQYRVITR FVNEAVLCLQ EGILATPEEG DIGAVFGLGF PPCLGGPFRF VDLYGAQKVV DRLRKYESAY GTQFTPCQLL RDLANNSSKK FYQ
Source	E.coli
Target Names	Hadha
Protein Names	Recommended name: Trifunctional enzyme subunit alpha, mitochondrial Alternative name(s): TP-alpha Including the following 2 domains: Long-chain enoyl-CoA hydratase EC= 4.2.1.17 Long chain 3-hydroxyacyl-CoA dehydrogenase EC=
Expression Region	37-763
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes the alpha 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 alpha subunit catalyzing the 3-hydroxyacyl-CoA dehydrogenase and enoyl-CoA hydratase activities. Mutations in this gene result in trifunctional protein deficiency or LCHAD deficiency. 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.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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