



# Recombinant Human Trifunctional enzyme subunit alpha, mitochondrial (HADHA)

<b>Product Code</b>	CSB-MP340324HU
<b>Storage</b>	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.
<b>Uniprot No.</b>	P40939
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	TRTH INYGVKGDVA VVRINSPNSK VNTLSKELHS EFSEVMNEIW ASDQIRSAVL ISSKPGCFIA GADINMLAAC KTLQEVTQLS QEAQRIVEKL EKSTKPIVAA INGSCLGGGL EVAISCQYRI ATKDRKTVLG TPEVLLGALP GAGGTQRLPK MVGVPAALDM MLTGRSIRAD RAKKMGLVDQ LVEPLGPGLK PPEERTIEYL EEVAITFAKG LADKKISPKR DKGLVEKLT A YAMTIPFVRQ QVYKKVEEKV RKQTKGLYPA PLKIIDVVKT GIEQGS DAGY LCESQKFGEL VMTKESKALM GLYHGQVLCK KKNKFGAPQKD VKHLAILGAG LMGAGIAQVS VDKGLKTILK DATLTALDRG QQQVFKGLND KVKKKALTSF ERDSIFSNTL GQLDYQGFEK ADMVIEAVFE DLSLKHRLVK EVEAIPDHC IFASNTSALP ISEIAAVSKR PEKVIGMHYF SPVDKMQLLE IITTEKTSKD TSASAVAVGL KQGKVIVVK DGPGFYTTRC LAPMMSEVIR ILQEGVDPKK LDSLTTSFGF PVGAATLVDE VGVDVAKHVA EDLGKVFGER FGGGNPELLT QMVSKGFLGR KSGKGFYIQ EGVKRKDLNS DMDSILASLK LPPKSEVSSD EDIQFRLVTR FVNEAVMCLQ EGILATPAEG DIGAVFGLGF PPCLGGPFRF VDLYGAQKIV DRLKKYEAAY GKQFTPCQLL ADHANS PNKK FYQ
<b>Source</b>	Mammalian cell
<b>Target Names</b>	HADHA
<b>Protein Names</b>	Recommended name: Trifunctional enzyme subunit alpha, mitochondrial Alternative name(s): 78 kDa gastrin-binding protein TP-alpha Including the following 2 domains: Long-chain enoyl-CoA hydratase EC= 4.2.1.17 Long chain 3-hyd
<b>Expression Region</b>	37-763
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.

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**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.

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**Shelf Life**

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