



Recombinant Human Trifunctional enzyme subunit alpha, mitochondrial (HADHA)

Product Code	CSB-EP340324HU-B
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.	P40939
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	TRTH INYGVKGDVA VVRINSPNSK VNTLSKELHS EFSEVMNEIW ASDQIRSAVL ISSKPGCFIA GADINMLAAC KTLQEVTQLS QEAQRIVEKL EKSTKPIVAA INGSCLGGGL EVAISCQYRI ATKDRKTVLG TPEVLLGALP GAGGTQRLPK MVGVPAALDM MLTGRSIRAD RAKKMGLVDQ LVEPLGPGLK PPEERTIEYL EEVAITFAKG LADKKISPKR DKGLVEKLTAMAMTIPFVRQ QVYKKVEEKV RKQTKGLYPA PLKIIDVVKT GIEQGS DAGY LCESQKFGEL VMTKESKALM GLYHGVVLCK KKNKFGAPQKD VKHLAILGAG LMGAGIAQVS VDKGLKTILK DATLTALDRG QQQVFKGLND KVKKKALTSF ERDSIFSNTL GQLDYQGFEK ADMVIEAVFE DLSLKHRLVK EVEAIPDHC IFASNTSALP ISEIAAVSKR PEKVIGMHYF SPVDKMQLLE IITTEKTSKD TSASAVAVGL KQGVIIIVK DPGPFYTTTC LAPMMSEVIR ILQEGVDPKK LDSLTTSFGF PVGAATLVDE VGVDVAKHVA EDLGKVFGER FGGGNPELLT QMVSKGFLGR KSGKGFYIQ EGVKRKDLNS DMDSILASLK LPPKSEVSSD EDIQFRLVTR FVNEAVMCLQ EGILATPAEG DIGAVFGLGF PPCLGGPFRF VDLYGAQKIV DRLKKYEAAY GKQFTPCQLL ADHANS PNKK FYQ
Source	E.coli
Target Names	HADHA
Protein Names	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
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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