



# Recombinant Human Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial (MCCC1)

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| <b>Product Code</b>      | CSB-MP853497HU   |
| <b>Abbreviation</b>      | MCCC1  |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>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>       | Q96RQ3   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | TTATGRNIT KVLIANRGEI ACRVMRTAKK LGVQTVAVYS EADRNSMHVD<br>MADEAYSIGP APSQQSYLSM EKIIQVAKTS AAQAIHPGCG FLSENMEFAE<br>LCKQEGIIFI GPPPSAIRDM GIKSTSKSIM AAAGVPVVEG YHGEDQSDQC<br>LKEHARRIGY PVMIKAVRGG GGKGMRIVRS EQEFQEQLS ARREAKKSFN<br>DDAMLIEKFV DTPRHVEVQV FGDHGHNAVY LFERDCSVQR RHQKIIIEAP<br>APGIKSEVRK KLGEAAVRAA KAVNYVGAGT VEFIMDSKHN FCFMEMNTRL<br>QVEHPVTEMI TGTDLVEWQL RIAAGEKIPL SQEEITLQGH AFEARIYAED<br>PSNNFMPVAG PLVHLSTPRA DPSTRIETGV RQGDEVSVHY DPMIAKLVVW<br>AADRQAALTK LRYSLRQYNI VGLHTNIDFL LNLSGHPEFE AGNVHTDFIP<br>QHHKQLLLSR KAAAKESLCQ AALGLILKEK AMTDTFTLQA HDQFSPFSSS<br>SGRRLNISYT RNMTLKDGN NVAIAVTYNH DGSYSMQIED KTFQVLGNLY<br>SEGDCYLKC SVNGVASKAK LIILENTIYL FSKEGSIEID IPVPKYLSSV<br>SSQETQGGPL APMTGTIEKV FVKAGDKVKA GDSLMVMIAM KMEHTIKSPK<br>DGTVKKVFYR EGAQANRHTP LVEFEFEESD KRESE |
| <b>Source</b>            | Mammalian cell   |
| <b>Target Names</b>      | MCCC1  |
| <b>Protein Names</b>     | Recommended name: Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial Short name= MCCase subunit alpha EC= 6.4.1.4 Alternative name(s): 3-methylcrotonyl-CoA carboxylase 1 3-methylcrotonyl-CoA carboxylase biotin-containin  |
| <b>Expression Region</b> | 42-725   |
| <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 large subunit of 3-methylcrotonyl-CoA carboxylase. This enzyme functions as a heterodimer and catalyzes the carboxylation of 3-  |



methylcrotonyl-CoA to form 3-methylglutaconyl-CoA. Mutations in this gene are associated with 3-Methylcrotonylglycinuria, an autosomal recessive disorder of leucine catabolism.

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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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