



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

<b>Product Code</b>	CSB-YP853497HU
<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. 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 MADEAYSIGP APSQQSYLSM EKIIQVAKTS AAQAIHPGCG FLSENMEFAE LCKQEGIIFI GPPPSAIRDM GIKSTSKSIM AAAGVPVVEG YHGEDQSDQC LKEHARRIGY PVMIKAVRGG GGKGMRIVRS EQEFQEQLS ARREAKKSFN DDAMLIEKFV DTPRHVEVQV FGDHHGNAVY LFERDCSVQR RHQKIIIEAP APGIKSEVRK KLGEAAVRAA KAVNYVGAGT VEFIMDSKHN FCFMEMNTRL QVEHPVTEMI TGTDLVEWQL RIAAGEKIPL SQEEITLQGH AFEARIYAED PSNNFMPVAG PLVHLSTPRA DPSTRIETGV RQGDEVSVHY DPMIAKLVVW AADRQAALTK LRYSLRQYNI VGLHTNIDFL LNLSGHPEFE AGNVHTDFIP QHHKQLLSR KAAAKESLCQ AALGLILKEK AMTDTFTLQA HDQFSPFSSS SGRRLNISYT RNMTLKDGN NVAIAVTYNH DGSYSMQIED KTFQVLGNLY SEGDCYLKC SVNGVASKAK LIILENTIYL FSKEGSIEID IPVPKYLSSV SSQETQGGPL APMTGTIEKV FVKAGDKVKA GDSLMVMIAM KMEHTIKSPK DGTVKKVFYR EGAQANRHTP LVEFEESD KRESE
<b>Source</b>	Yeast
<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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