



Recombinant Human Malonyl-CoA decarboxylase, mitochondrial (MLYCD)

Product Code	CSB-EP014646HU
Relevance	Catalyzes the conversion of malonyl-CoA to acetyl-CoA. In the fatty acid biosynthesis MCD selectively removes malonyl-CoA and thus assures that methyl-malonyl-CoA is the only chain elongating substrate for fatty acid synthase and that fatty acids with multiple methyl side chains are produced. In peroxisomes it may be involved in degrading intraperoxisomal malonyl-CoA, which is generated by the peroxisomal beta-oxidation of odd chain-length dicarboxylic fatty acids. Plays a role in the metabolic balance between glucose and lipid oxidation in muscle independent of alterations in insulin signaling. May play a role in controlling the extent of ischemic injury by promoting glucose oxidation.
Abbreviation	Recombinant Human MLYCD protein
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.	O95822
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	<p> MDELLRRAVPPTPAYELREKTPAPAEGQCADFVSFYGGGLAETAQRAELLGRLA RGFGVDHGQVAEQSAGVLHLRQQQREAAVLLQAEDRLRYALVPRYRGLFHFI SKLDGGVRFVLVQLRADLLEAQALKLVEGPDVREMNGVLKGMMLSEWFSSGFLN LERVTWHSPCEVLQKISEAEAVHPVKNWMDMKRRVGPYRRCYFFSHCSTPG EPLVVLHVALTGDISSNIQAIVKEHPPSETEEKNKITAAIFYSISLTTQQGLQGVEL GTFLIKRVVKELQREFPHLGVFSSLSPIPGFTKWLLGLLNSQTKEHGRNELFTD SECKEISEITGGPINETLKLSSSEWVQSEKLVRALQTPLMRLCAWYLYGEKH RGYALNPVANFHLQNGAVLWRINWMADVSLRGITGSCGLMANYRYFLEETGP NSTSYLGSKIIKASEQVLSLVAQFQKNSKL </p>
Research Area	others
Source	E.coli
Target Names	MLYCD
Protein Names	Recommended name: Malonyl-CoA decarboxylase, mitochondrial Short name= MCD EC= 4.1.1.9
Expression Region	40-493aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

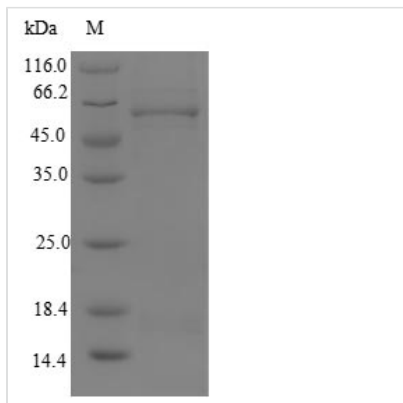


Tag Info N-terminal 10xHis-tagged and C-terminal Myc-tagged

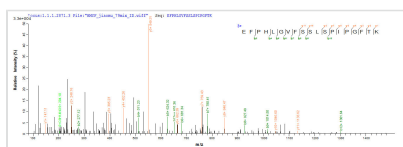
Mol. Weight 55.9kDa

Protein Length Full Length of Mature Protein

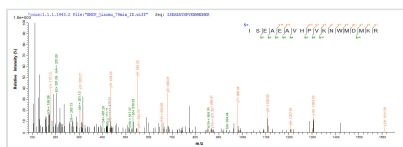
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP014646HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) O95822.



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Shelf Life

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