

MLYCD Protein, Human, Recombinant (His & Myc)

General Information

Synonyms: MCD;mitochondrial;MLYCD;Malonyl-CoA decarboxylase, mitochondrial

Protein Construction: 40-493 aa

Species: Human

Expression Host: E. coli

Accession: O95822

Molecular Weight: 55.9 kDa (predicted)

AA Sequence: MDELLRRAVPPTPAYELREKTPAPAEGQCADFVSFYGGGLAETAQRAELLGRLARGFGVDHGVQVAEQSAGVL
HLRQQQREAAVLLQAEDRLRYALVPRYRGLFHHISKLDGGVRFVLVQLRADLLEAQALKLVEGPDVREMNGVL
KGMLSEWFSSGFLNLERVTWHSPCEVLQKISEAEAVHPVKNWMDMKRRVGPYRRCYFFSHCSTPGEPLVVL
HVALTGDISSNIQAIVKEHPPSETEEKNKITAAIFYSISLTQQGLQGVELGTFLIKRVVKELQREFPHLGVFSSLSLSP
IPGFTKWLLGLLNSQTKEHGRNELFTDSECKEISEITGGPINETLKLSSSEWVQSEKLVRALQTPLMRLCAWY
LYGEKHRGYALNPVANFHLQNGAVLWRINWMADVSLRGITGSCGLMANYRYFLEETGPNSTSYLGSKIIKAS
EQVLSLVAQFQKNSKL

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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