

# Recombinant Human MLYCD Protein (M40-S491), His tagged

Cat. No. MLYCD-0229H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human 6His-TEV-MCD(M40-S491) (E58A, K59A, E278A, E279A, K280A) Protein was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	M40-S491
<b>Description</b>	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.
<b>Form</b>	Liquid
<b>Endotoxin</b>	< 0.01 EU per µg of the protein
<b>Purity</b>	90%

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<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol
<b>Shipping</b>	It is shipped out with blue ice.

## GENE INFORMATION

<b>Gene Name</b>	MLYCD malonyl-CoA decarboxylase [ Homo sapiens (human) ]
<b>Official Symbol</b>	MLYCD
<b>Synonyms</b>	MLYCD; malonyl-CoA decarboxylase; malonyl-CoA decarboxylase, mitochondrial; hMCD; MCD; malonyl coenzyme A decarboxylase; MGC59795;
<b>Gene ID</b>	23417
<b>mRNA Refseq</b>	NM_012213
<b>Protein Refseq</b>	NP_036345
<b>MIM</b>	606761
<b>UniProt ID</b>	O95822

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