

Recombinant Full Length Human MLYCD Protein, GST-tagged

Cat. No. MLYCD-6379HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MLYCD full-length ORF (NP_036345.2, 1 a.a. - 493 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	493 amino acids
Description	The product of this gene catalyzes the breakdown of malonyl-CoA to acetyl-CoA and carbon dioxide. Malonyl-CoA is an intermediate in fatty acid biosynthesis, and also inhibits the transport of fatty acyl CoAs into mitochondria. Consequently, the encoded protein acts to increase the rate of fatty acid oxidation. It is found in mitochondria, peroxisomes, and the cytoplasm. Mutations in this gene result in malonyl-CoA decarboxylase deficiency. [provided by RefSeq
Molecular Mass	81.4 kDa
AA Sequence	MRGFGPGLTARRLLPLRLPPRPPGPRLASGQAAGALERAMDELLRRVPPTPAYEL REKTPAPAEQGQCADFVSFYGGLAETAQRAELLGRLARGFGVDHGQVAEQSAGVLH LRQQQREAAVLLQAEDRLRYALVPRYRGLFHHISKLDGGVRFLVQLRADLLEAQALK LVEGPDVREMNGVLKGM LSEWFSSGFLNLERVTWHSPCEVLQKISEAEAVHPVKN WMDMKRRVGPYRRRCYFFSHCSTPGEPLVVLHVALTGDISSNIQAIVKEHPPSETEEK NKITAAIFYSISLTQQGLQGVELGTFLIKRVVKELQREFPHLGVFSSLSPIPGFTKWLL GLLNSQTKEHGRNELFTDSECKEISEITGGPINETLKLLLSSEWVQSEKLVRALQTP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	LMRLCAWYLYGEKHRGYALNPVANFHLQNGAVLWRINWMADVSLRGITGSCGLMA NYRYFLEETGPNSTSYLGSKIISKASEQVLSLVAQFQKNSKL
Applications	Antibody Production Functional Study Compound Screening
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	MLYCD malonyl-CoA decarboxylase [Homo sapiens]
Official Symbol	MLYCD
Synonyms	MLYCD; malonyl-CoA decarboxylase; malonyl-CoA decarboxylase, mitochondrial; hMCD; MCD; malonyl coenzyme A decarboxylase; MGC59795;
Gene ID	23417
mRNA Refseq	NM_012213
Protein Refseq	NP_036345
MIM	606761
UniProt ID	O95822

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