

## Product datasheet for TP308587M

### MLYCD (NM\_012213) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human malonyl-CoA decarboxylase (MLYCD), nuclear gene encoding mitochondrial protein, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208587 representing NM_012213 Red=Cloning site Green=Tags(s)

MRGFGPGLTARRLLPLRLPPRPPGPRLASGQAAGALERAMDELLRRVAVPTPAYELREKTPAPAEGQCAD  
FVSFYGGLAETAQRAELGRLARGFGVDHGQVAEQSAGVLHLRQQQREAAVLLQAEDRLRYALVPRYRGL  
FHHISKLDGGVRFVQLRADLLEAQALKLVEGPDVREMNGVLKGMSEWFSSGFLNLERVTWHPCEVLQ  
KISEAEAVHPVKNWMDMKRRVGPYRRCYFFSHCSTPGEPLVVLHVALTGDISSNIQAIKHEHPPSETEEK  
NKITAAIFYSISLTQQGLQGVELGTFLIKRVVKELQREFPHLGVFSSLSPIPGFTKWLLGLLNSQTKEHG  
RNELFDTSECKEISEITGGPINETLKLLSSSEWVQSEKLVRALQTPLMRLCAWYLYGEKHRGYALNPVA  
NFHLQNGAVLWRINWMADVSLRGITGSCGLMANYRYFLEETGPNSTSYLGSKIIKASEQVLSLVAQFQKN  
SKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

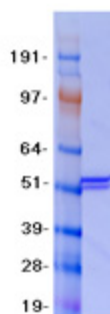
Tag:	C-Myc/DDK
Predicted MW:	54.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_036345</a>
<b>Locus ID:</b>	23417
<b>UniProt ID:</b>	<a href="#">O95822</a>
<b>RefSeq Size:</b>	2211
<b>Cytogenetics:</b>	16q23.3
<b>RefSeq ORF:</b>	1479
<b>Synonyms:</b>	MCD
<b>Summary:</b>	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, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	beta-Alanine metabolism, Metabolic pathways, Propanoate metabolism

### Product images:



Coomassie blue staining of purified MLYCD protein (Cat# [TP308587]). The protein was produced from HEK293T cells transfected with MLYCD cDNA clone (Cat# [RC208587]) using MegaTran 2.0 (Cat# [TT210002]).