

## Product datasheet for PH308587

### MLYCD (NM\_012213) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MLYCD MS Standard C13 and N15-labeled recombinant protein (NP_036345)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208587
Predicted MW:	54.8 kDa
Protein Sequence:	>RC208587 representing NM_012213 Red=Cloning site Green=Tags(s)

MRGFGPGLTARRLLPLRLPPRPPGRLASGQAAGALERAMDELLRRAVPPTPAYELREKTPAPAEGQCAD  
FVSFYGGLAETAQRAELLGRLARGFGVDHGQVAEQSAGVLHLRQQQREAAVLLQAEDRLRYALVPRYRGL  
FHHISKLDGGVRFVLVQLRADLLEAQALKLVEGPDVREMNGVLKGMLESEWSSGFLNLERVTWHPCEVLQ  
KISEAEAVHPVKNWMDMKRRVGPYRRCYFFSHCSTPGEPLVVLHVALTGDISSNIQAIIVKEHPPSETEEK  
NKITAAIFYSISLTQQGLQGVELGTFLIKRVVKELQREFPHLGVFSSLSPIPGFTKLLGLLNSQTKEHG  
RNELFTDSECKEISEITGGPINETLKLSSSEWVQSEKLVRALQTPLMRLCAWLYGKEHRGYALNPVA  
NFHLQNGAVLWRINWMDVSLRGITGSCGLMANYRYFLEETGPNSTSYLGSKI IKASEQVLSLVAQFQKN  
SKL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_036345</a>
RefSeq Size:	2211
RefSeq ORF:	1479



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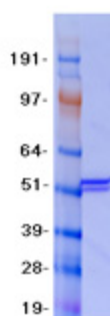
Synonyms: MCD  
Locus ID: 23417  
UniProt ID: [O95822](#)  
Cytogenetics: 16q23.3

**Summary:** 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]

**Protein Families:** Druggable Genome

**Protein Pathways:** 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]).