

## Recombinant Mouse Mlycd Protein, His-tagged

**Cat. No.** Mlycd-1782M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Mlycd Protein (Ser190-Leu492) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Ser190-Leu492                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Enables malonyl-CoA decarboxylase activity. Involved in malonyl-CoA catabolic process and positive regulation of fatty acid oxidation. Located in mitochondrial matrix. Is expressed in several structures, including alimentary system; nervous system; nose; respiratory system; and urinary system. Human ortholog(s) of this gene implicated in cardiomyopathy. Orthologous to human MLYCD (malonyl-CoA decarboxylase). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 37.7 kDa<br>Accurate Molecular Mass: 37 kDa                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                  |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Mlycd malonyl-CoA decarboxylase [ Mus musculus (house mouse) ]                             |
| <b>Official Symbol</b> | Mlycd                                                                                      |
| <b>Synonyms</b>        | MLYCD; malonyl-CoA decarboxylase; malonyl-CoA decarboxylase, mitochondrial; Mcd; AI324784; |
| <b>Gene ID</b>         | 56690                                                                                      |
| <b>mRNA Refseq</b>     | NM_019966                                                                                  |
| <b>Protein Refseq</b>  | NP_064350                                                                                  |
| <b>UniProt ID</b>      | Q99J39                                                                                     |

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