# Recombinant Full Length Human ME2 Protein, C-Flag-tagged

**Cat. No.** ME2-198HFL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Full Length Human ME2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **Description** | This gene encodes a mitochondrial NAD-dependent malic enzyme, a homotetrameric protein, that catalyzes the oxidative decarboxylation of malate to pyruvate. It had previously been weakly linked to a syndrome known as Friedreich ataxia that has since been shown to be the result of mutation in a completely different gene. Certain single-nucleotide polymorphism haplotypes of this gene have been shown to increase the risk for idiopathic generalized epilepsy. Alternatively spliced transcript variants encoding different isoforms found for this gene. |
| **Form** | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 63.4 kDa |
| **AA Sequence** | MLSRLRVVSTTCTLACRHLHIKEKGKPLMLNPRTNKGMAFTLQERQMLGLQGLLPP KIETQDIQALRFHR NLKKMTSPLEKYIYIMGIQERNEKLFYRILQDDIESLMPIVYTPTV GLACSQYGHIFRRPKGLFISISDR GHVRSIVDNWPENHVKAVVVTDGERILGLGDLG VYGMGIPVGKLCLYTACAGIRPDRCLPVCIDVGTDNI ALLKDPFYMGLYQKRDRTQQ YDDLIDEFMKAITDRYGRNTLIQFEDFGNHNAFRFLRKYREKYCTFNDDI QGTAAVA LAGLLAAQKVISKPISEHKILFLGAGEAALGIANLIVMSMVENGLSEQEAQKKIWMFDK |

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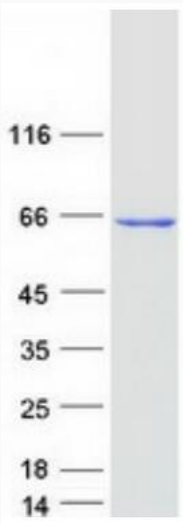
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|---|---|
| | YGLL VKGRKAKIDSYQEPFTHSAPESIPDTFEDAVNILKPSTIIGVAGAGRLFTPDVIR AMASINERPVIFALS NPTAQAECTAEEAYTLTEGRCLFASGSPFGPVKLTDGRVFTP GQGNNVYIFPGVALAVILCNTRHISDSV FLEAAKALTSQLTDEELAQGRLYPPLANIQ EVSINIAIKVTEYLYANKMAFRYPEPEDKAKYVKERTWRS EYDSLLPDVYEWPESASSPPVITETRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade. |
| **Concentration** | >50 ug/mL as determined by microplate BCA method. |
| **Preparation** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Protein Pathways** | Pyruvate metabolism |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | ME2 malic enzyme 2 [ Homo sapiens (human) ] |
| **Official Symbol** | ME2 |
| **Synonyms** | ODS1 |
| **Gene ID** | 4200 |

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| **mRNA Refseq** | NM_002396.5 |
| **Protein Refseq** | NP_002387.1 |
| **MIM** | 154270 |
| **UniProt ID** | P23368 |




Coomassie blue staining of purified ME2 protein.

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