

## Recombinant Human ME2 protein, His & T7-tagged

Cat. No. ME2-1545H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant Human ME2 aa. (Gly220~Ala426 (Accession # P23368)) fused with N-terminal His & T7 tag was produced in E. coli cells.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | Gly220~Ala426                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 26.8kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>      | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                            |
| <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°C 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°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                          |
| <b>Storage buffer</b>    | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                |
| <b>Reconstitution</b>    | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                           |
| <b>Isoelectric Point</b> | 7                                                                                                                                                                                                                                                                                                                                   |

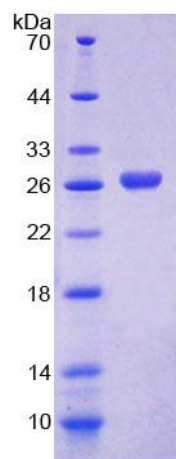
## GENE INFORMATION

|                        |                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ME2 malic enzyme 2 [ Homo sapiens (human) ]                                                                                                                                                                   |
| <b>Official Symbol</b> | ME2                                                                                                                                                                                                           |
| <b>Synonyms</b>        | ME2; malic enzyme 2; ODS1; NAD-dependent malic enzyme, mitochondrial; NAD-ME; malate dehydrogenase (oxaloacetate-decarboxylating); malic enzyme 2, NAD(+)-dependent, mitochondrial; pyruvic-malic carboxylase |
| <b>Gene ID</b>         | 4200                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_001168335.1                                                                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_001161807.1                                                                                                                                                                                                |

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