

Recombinant Human ME2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ME2-5218H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ME2 MS Standard C13 and N15-labeled recombinant protein (NP_002387) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	65.44 kDa
AA Sequence	MLSRLRVVSTTCTLACRHLHIKEKGKPLMLNPRTNKGMAFTLQERQMLGLQGLLPP KIETQDIQALRFHRNLKMTSPLEKYIYIMGIQERNEKLFYRILQDDIESLMPIVYTPTV GLACSQYGHIFRRPKGLFISISDRGHVRSIVDNWPENHVKAVVVDGERILGLGDLG VYGMGIPVGKLCLYTACAGIRPDRCLPVCIDVGTDNIALLKDPFYMGLYQKRDRTQQ YDDLIDEFMKAITDRYGRNTLIQFEDFGNHNAFRFLRKYREKYCTFNDDIQGTAVAL AGLLAAQKVISKPISEHKILFLGAGEAALGIANLIVMSMVENGLSEQEAQKKIWMFDKY

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GLLVKGRKAKIDSYQEPFTHSAPESIPDTFEDAVNILKPSTIIGVAGAGRLFTPDVIRA
 MASINERPVIFALSNPTAQAECTAEEAYTLTEGRCLFASGSPFGPVKLTGDRVFTPG
 QGNNVYIFPGVALAVILCNTRHISDSVFLEAAKALTSQLTDEELAQGRLYPPLANIQEV
 SINIAIKVTEYLYANKMAFRYPEPEDKAKYVKERTWRSEYDSLLPDVYEWPESSASP
 PVITETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ME2 malic enzyme 2 [Homo sapiens (human)]

Official Symbol ME2

Synonyms ME2; malic enzyme 2, NAD(+)-dependent, mitochondrial; NAD-dependent malic enzyme, mitochondrial; NAD-ME; malate dehydrogenase; pyruvic-malic carboxylase; ODS1;

Gene ID 4200

mRNA Refseq NM_002396

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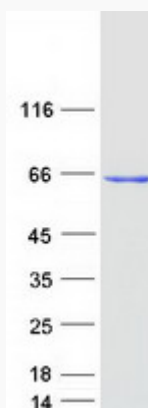
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Protein Refseq NP_002387

MIM 154270

UniProt ID P23368

SDS-PAGE



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