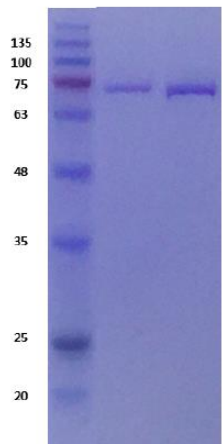


<b>Product Name</b>	Recombinant Human ME2 (Isoform 1)
<b>Sizes</b>	5 µg, 10 µg, 25 µg, 100 µg, 250 µg, 500 µg, 1.0 mg
<b>Synonym(s)</b>	NAD-dependent malic enzyme, mitochondrial; NAD-ME; Malic enzyme 2
<b>Species</b>	Human
<b>UniProt Consortium</b>	P23368
<b>Introduction</b>	Mitochondrial NAD-dependent malic enzyme (ME2) is 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. [provided by RefSeq, Dec 2009].
<b>Amino Acid Sequence</b>	<pre> MIKEKGKPLMLNPRTNKGMAFTLQERQMLGLQGLLPPKIETQDIQA LRFHRNLKMTSPLEKYIYIMGIQERNEKLFYRILQDDIESLMPIVYTP TVGLACSQYGHIFRRPKGLFISISDRGHVRSIVDNWPENHVKAVVVT DGERILGLGDLGVYGMGIPVGKLCCLYTACAGIRPDRCLPVCIDVGTD NIALLKDPFYMGLYQKRDRTQQYDDLIDEFMKAITDRYGRNTLIQFE DFGNHNAFRFLRKYREKYCTFNDDIQGTAVALAGLLAAQKVISKPI SEHKILFLGAGEAALGIANLIVMSMVENGLSEQEAQKKIWMFDKYGL LVKGRKAKIDSYQEPFTHSAPESIPDTFEDAVNILKPSTIIGVAGAGR LFTPDVIRAMASINERP VIFALSNPTAQAECTAEEAYTLTEGRCLFAS GSPFGPVKLT DGRVFTP GQGNNVYIFPGVALAVILCNTRHISDSVFL EAAKALTSQLTDEELAQGRLYPPLANIQEV SINIAIKVTEYLYANKMA FRYPEPEDKAKYVKERTWRSEYDSLLPDVYEWPESSASSPPVITELE HHHHHH </pre>
<b>Tag</b>	His tag C-terminus
<b>Expression source</b>	<i>E. coli</i>
<b>MW</b>	64.4 kD
<b>Purity</b>	>95% on SDS PAGE
<b>Formulation</b>	30 mM Tris, pH 7.4; 500 mM NaCl; 10% glycerol; 3 mM MgCl <sub>2</sub> ; 5 mM beta-mercaptoethanol; 1 mM PMSF; 1 mM Benzamidine

<b>Presentation</b>	Clear solution in 30 mM Tris, pH7.4, 150 mM NaCl, 40% Glycerol, 5 mM DTT
<b>Shipping</b>	Shipped on dry ice.
<b>Storage/stability</b>	Upon delivery aliquot and store at -80 °C. Avoid multiple freeze-thaw cycles. The protein is stable for 12 months at -80 °C, for 2-4 weeks at 4°C.
<b>Application</b>	Protein binding assay, small molecule inhibitor screening, substrate of kinase, antigen, ELISA, Western blot, crystallization and co-crystallization studies.
<b>ME2 Protein Image</b>	<p style="text-align: center;">ME2</p>  <p style="text-align: center;">kDa</p> <p style="text-align: center;">135 100 75 63 48 35 25 20</p> <p><b>Figure 1. SDS-PAGE analysis of hME2, his-tagged</b></p> <ol style="list-style-type: none"> <li>1. 0.5 ug hME2, his-tagged</li> <li>2. 1 ug hME2, his-tagged</li> </ol>

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