

Malic Enzyme 2 Human Recombinant

Item Number	rAP-1390
Synonyms	Malic enzyme 2 NAD(+)-dependent mitochondrial, NAD-ME, ODS1, Malate Dehydrogenase, NAD-dependent malic enzyme mitochondrial, pyruvic-malic carboxylase, Malic enzyme 2, EC 1.1.1.38, EC 1.1.1.
Description	ME2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 573 amino acids and having a total molecular mass of 64.4kDa. ME2 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P23368
Amino Acid Sequence	MLHIKEKGKPLMLNPRTNKGMAFTLQERQMLGLQGLLPPKIETQDIQAL- RFHRNLKKMTSPLEKYIYIMGIQERNEKLFYRILQDDIESLMPIVYTPTVGLACSQYGHIFRRPKGLFISISDRG HVRSDVNDWPNENHVKAVVVDGERILGLDGLGVYGMGIPVGKLCCLYTACAGIRPDRCLPVCIDVGTDNIAL KDPFYMGLYQKRDRTOQQYDDLIDEFMKAITDRYGRNTLIQFEDFGNHNAFRFLRKYREKYCTFNDDIQGTA AVALAGLLAAQKVISKPISEHKILFLGAGEAALGIANLIVMSMVENGLSEQEAQKKIWMFDKYGLLVKGRKAKI DSYQEPFTHSAPESIPDTFEDAVNILKPSTIIGVAGAGRLFTPDVIRAMASINERPVIFALSNPTAQAECTAEE AYTLTEGRCLFASGSPFGPVKLTGGRVFTPGQGNNVYIFPGVALAVILCNTRHISDSVFLEAAKALTSQLT EELAQGRLYPPLANIQEVSNIAIKVTEYLYANKMAFRYPEPEDKAKYVKERTWRSEYDSLLPDVYEWPESA
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized ME2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution ME2 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Formulation and Purity	The protein was Lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris, 150mM NaCl, 1mM b-mercaptoethanol, 1mM EDTA, pH8.0. Greater than 95.0% as determined by (a) Analysis by HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized ME2 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**