

Recombinant Human ME3 Protein

Cat. No. ME3-42H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ME3 Protein was expressed in E. coli.
Species	Human
Source	E.coli
Description	Malic enzyme catalyzes the oxidative decarboxylation of malate to pyruvate using either NAD ⁺ or NADP ⁺ as a cofactor. Mammalian tissues contain 3 distinct isoforms of malic enzyme: a cytosolic NADP(+)-dependent isoform, a mitochondrial NADP(+)-dependent isoform, and a mitochondrial NAD(+)-dependent isoform. This gene encodes a mitochondrial NADP(+)-dependent isoform. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined.
Form	Liquid. In 20 mM Tris-HCl, 1 M NaCl, pH8.0, with 10% glycerol.
Molecular Mass	~63.2 kDa
AA Sequence	RWTPTAPAQGCHSKPGPARPVPLKKRGYDVTRNPHLNKGMAFTLEERLQLGIHGLI PPCFLSQDVQLLRIMRYRERQQSDLDKYIILMTLQDRNEKLFYRVLTSDVEKFMPIVY TPTVGLACQHYGLTFRPRGLFITIHDKGHLATMLNSWPEDNIKAVVVTGGERILGLG DLGCGYGMGIPVGKLALYTACGGVNPQQCLPVLLDVGTNNEELLRDPLYIGLKHQRV HGKAYDDLLDEFMQAVTDKFGINCLIQFEDFANANAFRLLNKYRNKYCMFNDDIQGT ASVAVAGILAALRITKNKLSNHVVFVQGAGEAAMGIAHLLVMALEKEGVPKAEATRKI WMVDSKGLIVKGRSHLNHEKEMFAQDHPEVNSLEEVVRLVKPTAIGVAAIAGAFTE

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QILRDMASFHERPIIFALSNPTSKAECTAEKCYRVTEGRGIFASGSPFKSVTLEDGKT
FIPGQGNNAYVFPGVALGVIAGGIRHIPDEIFLLTAEQIAQEVSEQHLSQGRLYPPLST
IRDVSLRIAIAKVLVDYAYKHNLASYYPEPKDKEAFVRSLVYTPDYDSFTLD

Purity >90%

Storage Short Term Storage at 4 centigrade, Long Term, please prepare aliquots with 20% glycerol and store at -20 to -80 centigrade. Avoid freeze/thaw cycles.

Concentration 0.1 mg/ml

Official Full Name Malic enzyme 3

GENE INFORMATION

Gene Name ME3 malic enzyme 3 [Homo sapiens (human)]

Official Symbol ME3

Synonyms NADP-ME

Gene ID 10873

mRNA Refseq NM_001014811

Protein Refseq NP_001014811

MIM 604626

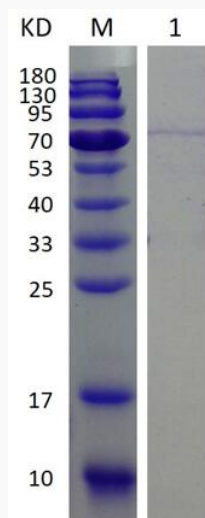
UniProt ID Q16798

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SDS-PAGE



12% SDS-PAGE analysis profiles of purified Human NADP-dependent malic enzyme, mitochondrial.

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