

Recombinant Human ME3 Protein, His tagged

Cat. No. ME3-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ME3 Protein with His-tag 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
Molecular Mass	(Theoretical molecular weight) ~ 63.2 kDa
AA Sequence	RWTPTAPAQGCHSKPGPARPVPLKKRGYDVTRNPHLNKGMAFTLEERLQLGIHGLI PPCFLSQDVQLLRIMRYYERQQSDLDKYIILMTLQDRNEKLFYRVLTSDVEKFMPIVY TPTVGLACQHYGLTFRRPRGLFITIHDKGHLATMLNSWPEDNIKAVVVTGGERILGLG DLGICYGMGIPVGKLALYTACGGVNPQQCLPVLLDVGTNNEELLRDPLYIGLKHQRV HGKAYDDLDEFMQAVTDKFGINCLIQFEDFANANAFRLLNKYRNKYCMFNDDIQGT ASVAVAGILAALRITKNKLSNHVVFVQGAGEAAMGIAHLLVMALEKEGVPKAEATRKI WMVDSKGLIVKGRSHLNHEKEMFAQDHPEVNSLEEVVRLVKPTAIGVAAIAGAFTE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QILRDMASFHERPIIFALSNPTSKAECTAEKCYRVTEGRGIFASGSPFKSVTLEDGKT
FIPGQGNNAYVFPGVALGVIAGGIRHIPDEIFLLTAEQIAQEVSEQHLSQGRLYPPLST
IRDVSLRIAIAKVL DYAYKHNLASYYPEPKDKEAFVRSLVYTPDYDSFTLD

Purity > 90% as determined by SDS-PAGE

Storage Long term storage, please prepare aliquots and store at -20 to -80 centigrade. Avoid freeze/thaw cycles.

Concentration 0.1 mg/mL

Storage Buffer In 20 mM Tris-HCl, 1 M NaCl, pH 8.0, with 10% glycerol.

GENE INFORMATION

Gene Name ME3 malic enzyme 3, NADP(+)-dependent, mitochondrial [Homo sapiens (human)]

Official Symbol ME3

Synonyms ME3; malic enzyme 3, NADP(+)-dependent, mitochondrial; NADP-dependent malic enzyme, mitochondrial; malate dehydrogenase; pyruvic-malic carboxylase; malic enzyme, NADP+-dependent, mitochondrial; mitochondrial NADP(+)-dependent malic enzyme 3; NADP-ME; FLJ34862;

Gene ID 10873

mRNA Refseq NM_001014811

Protein Refseq NP_001014811

MIM 604626

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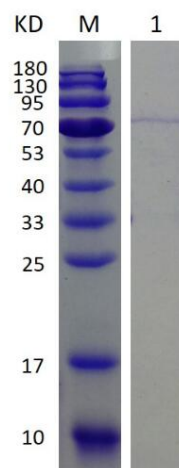
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UniProt ID

Q16798

**12% SDS-PAGE
analysis of purified
Human ME3 (CBB
stained)**



Lane M: Protein Marker

Lane 1: Elution (0.6 µg protein loaded)

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