

Recombinant Human ME1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ME1-5947H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ME1 MS Standard C13 and N15-labeled recombinant protein (NP_002386) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a cytosolic, NADP-dependent enzyme that generates NADPH for fatty acid biosynthesis. The activity of this enzyme, the reversible oxidative decarboxylation of malate, links the glycolytic and citric acid cycles. The regulation of expression for this gene is complex. Increased expression can result from elevated levels of thyroid hormones or by higher proportions of carbohydrates in the diet.
Molecular Mass	64.1 kDa
AA Sequence	MEPEAPRRRHTHQRGYLLTRNPHLNKDLAFTLEERQQLNIHGLLPPSFNSQEIQVLR VVKNF EHLNSDFDRYLLMLDQDRNEKLFYRVLTSDIEKFMPIVYTPTVGLACQQYSL VFRKPRGLFITIHDRGHIA SVLNAWPEDVIKAI VVDGERILGLGDLGCNGMGIPVGKL ALYTACGGMNPQECLPVILDVGTENEELLKDPLYIGLRQRRVRGSEYDDFLDEFMEA VSSKYGMNCLIQFEDFANVNAFRLLNKYRNQYCTFNDDIQGTASVAVAGLLAALRIT KNKLS DQTILFQGAGEAALGIAHLIVMALEKEGLPKEKA IKKIWLVD SKGLIVKGRASL TQEKEKFAHEHEEMKNLEAIVQEIKPTALIGVAAIGGAFSEQILKDMAAFNERPIIFALS NPTSKAECSAEQCYKITKGRAIFASGSPFDPVTL PNGQTL YPGQGNN SYVFP GVAL

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GVVACGLRQITDNIFLTAEVIAQQVSDKHLEEGRLYPPLNTIRDVSLKIAEKIVKDAY
 QEKTATVYPEPQNKEAFVRSQMYSTDYDQILPDCYSWPPEEVQKIQTQVDQTRTRPL
 EQKLISEEDLAANDILDYKDDDDKV

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 ME1 malic enzyme 1 [Homo sapiens (human)]

Official Symbol ME1

Synonyms ME1; malic enzyme 1, NADP(+)-dependent, cytosolic; NADP-dependent malic enzyme; NADP-ME; malate dehydrogenase; malic enzyme 1, soluble; Malic enzyme, cytoplasmic; pyruvic-malic carboxylase; MES; HUMNDME;

Gene ID 4199

mRNA Refseq NM_002395

Protein Refseq NP_002386

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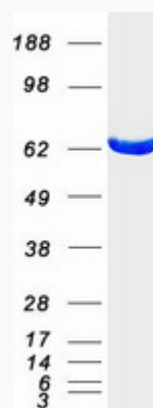
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MIM 154250

UniProt ID P48163

SDS-PAGE



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