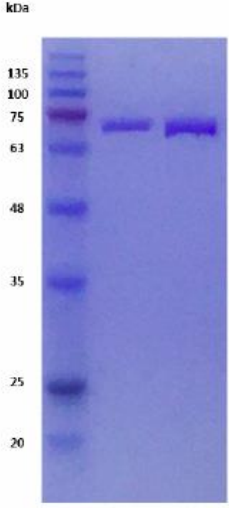


Product Name	Recombinant Human ME1
Sizes	10 µg, 25 µg, 100 µg , 1.0 mg
Synonym(s)	NADP-dependent malic enzyme; Malic enzyme 1
Species	Human
UniProt Consortium	P48163
Introduction	ME1 is a cytosolic, NADP-dependent enzyme that generates NADPH for fatty acid biosynthesis. The activity of this enzyme, the 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. [provided by RefSeq, Jul 2008].
Amino Acid Sequence	MEPEAPRRRHTHQRGYLLTRNPHLNKDLAFTLEERQQLNIHGLLPP SFNSQEIQVLRVVKNF EHLNSDFDRYLLMLDQDRNEKLFYRVLTS DIEKFMPIVYTPTVGLACQQYSLVFRKPRGLFITIHDRGHIASVLNAW PEDVIKAIVVT DGERILGLGLGCNGMGIPVGKLALYTACGGMNPQ ECLPVILDVGTENEELLKDPLYIGLRQRRVRGSEYDDFLDEFMEAVS SKYGMNCLIQFEDFANVNAFRLLNKYRNQYCTFNDDIQGTASVAVA GLLAALRITKNKLS DQITILFQGAGEAALGIAHLIVMALEKEGLPKEKAI KKIWLVD SKGLIVKGRASLTQEKEKFAHEHEEMKNLEAIVQEIKPTAL IGVAAIGGAFSEQILKDMAAFNERPIIFALS NPTSKAEC SAEQC YKIKT GRAIFASGSPFDPVTL PNGQTLYPGQGNN SYVFP GVALGVVACGL RQITDNIFLTAEVIAQQVSDKHLEEGRLYPPLNTIRDVSLKIAEKIVK DAYQEKTATVYPEPQNKEAFVRSQMYSTDYDQILPDCYSWPEEVQ KIQTKVDQLEHHHHHH
Tag	His tag C-terminus
Expression source	<i>E. coli</i>
MW	65.2 KD
Purity	>95% on SDS PAGE
Formulation	30 mM Tris pH 7.4; 500 mM NaCl; 10% glycerol; 3 mM MgCl ₂ ; 5 mM beta-mercaptoethanol; 1 mM PMSF; 1 mM Benzamidine
Presentation	Clear solution in 30 mM Tris, pH7.4, 150 mM NaCl, 40% Glycerol, 5 mM DTT

Shipping	Shipped on dry ice.
Storage/stability	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.
Application	Protein binding assay, small molecule inhibitor screening, substrate of kinase, antigen, ELISA, Western blot, crystallization and co-crystallization studies.
ME1 Protein Image	 <p>Figure 1. SDS-PAGE analysis of hME1, his-tagged</p> <ol style="list-style-type: none"> 0.5 ug hME1, his-tagged 1 ug hME1, his-tagged

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