

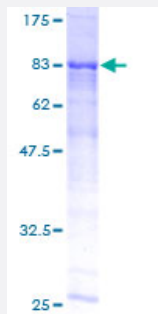
Full-Length

ME1 (Human) Recombinant Protein (P01)

Catalog # H00004199-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ME1 full-length ORF (AAH25246, 1 a.a. - 572 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MEPEAPRRRHTHQRGYLLTRNPHLNKDLAFTLEERQQLNIHGLLPPSFNSQEIQVLRVVKNFEHLN
SDFDRYLLMDLQDRNEKLFYRVLTSIEKFMPMYTPTVGLACQQYSLVFRKPRGLFITIHDRGHIA
SVLNAWPEDVIKAMVTDGERILGLDGLGCNGMGIPVGKLALYTACGGMNPQECLPVILDVGTENE
ELLKDPLYIGLRQRRVRGSEYDDFLDEFMEAVSSKYGMNCLIQFEDFANVNAFRLLNKYRNQYCT
FNDDIQGTASVAVAGLLAALRITKNKLSAQITLFGAGEAALGIAHLVMALEKEGLPKEKAIAKKWL
VDSKGLIVKGRASLTQEKEKFAHEHEEMKNLEAMQEIPTALIGVAAIGGAFSEQILKDMAAFNER
PIIFALSNPTSKAECSAEQCYKITKGRAIFASGSPFDPVTLPNGQTLYPGQGNNSYVFPGVALGVVA
CGLRQITDNIFLTAEVIAQQVSDKHLEEGRLYPPLNTIRDVSLKIAEKIVKDAYQEKTATVYPEPQNK
EAFVRSQMYSTDYDQILPDCYSWPPEEVQKIQTKVDQ

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

88.66

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ME1

Entrez GeneID[4199](#)**GeneBank Accession#**[BC025246](#)**Protein Accession#**[AAH25246](#)**Gene Name**

ME1

Gene Alias

HUMNDME, MES

Gene Description

malic enzyme 1, NADP(+)-dependent, cytosolic

Omim ID[154250](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. [provided by RefSeq]

Other Designations

Malic enzyme, cytoplasmic|NADP-dependent malic enzyme|OTTHUMP00000016792|cytosolic malic enzyme 1|malate dehydrogenase|malic enzyme 1, soluble|pyruvic-malic carboxylase

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Carbon fixation in photosynthetic organisms](#)
- [Metabolic pathways](#)
- [PPAR signaling pathway](#)
- [Pyruvate metabolism](#)

Disease

- [Lung Neoplasms](#)