

## Recombinant Human ME1 Protein, C-6×His tagged

**Cat. No.** ME1-18H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ME1 Protein with C-6×His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | Enables cytokine activity and growth factor activity. Acts upstream of or within several processes, including animal organ development; generation of neurons; and positive regulation of macromolecule metabolic process. Located in extracellular space. Is expressed in several structures, including alimentary system; central nervous system; cranium; early conceptus; and female reproductive system. Orthologous to human LIF (LIF interleukin 6 family cytokine).                                                                                             |
| <b>Molecular Mass</b>   | 65.2 KD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MEPEAPRRRHTHQRGYLLTRNPHLNKDLAFTLEERQQLNIHGLLPPSFNSQEIQVLR<br>VVKNFEHLNSDFDRYLLMDLQDRNEKLFYRVLTSDIEKFMPIVYTPTVGLACQQYSL<br>VFRKPRGLFITIHDRGHASVLNAWPEDVIKAIVVTGGERILGLGDLGCNGMGIPVGKL<br>ALYTACGGMNPQECLPVILDVGTENEELLKDPLYIGLRQRRVRGSEYDDFLDEFMEA<br>VSSKYGMNCLIQFEDFANVNAFRLLNKYRNQYCTFNDDIQGTASVAVAGLLAALRIT<br>KNKLSDQTILFQGAGEAALGIAHLIVMALEKEGLPKEKAIKKIWLVDKGLIVKGRASL<br>TQEKEKFAHEHEEMKNLEAIVQEIKPTALIGVAAIGGAFSEQILKDMAAFNERPIIFALS<br>NPTSKAECSAEQCYKITKGRAIFASGSPFDPVTLPNGQTLYPGQGNNNSYVFPGVAL<br>GVVACGLRQITDNIFLTAEVIAQQVSDKHLEEGRLYPPLNTIRDVSLKIAEKIVKDAY |

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|                       |                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | QEKTATVYPEPQNKEAFVRSQMYSTDYDQILPDCYSWP EEVQKIQT KVDQLEHHHHH                                                                                                                 |
| <b>Purity</b>         | > 95% by SDS-PAGE                                                                                                                                                           |
| <b>Usage</b>          | Protein binding assay, small molecule inhibitor screening, substrate of kinase, antigen, ELISA, Western blot, crystallization and co- crystallization studies.              |
| <b>Storage</b>        | Upon delivery aliquot and store at -80 centigrade. Avoid multiple freeze-thaw cycles. The protein is stable for 12 months at -80 centigrade, for 2-4 weeks at 4 centigrade. |
| <b>Storage Buffer</b> | 30 mM Tris pH 7.4; 500 mM NaCl; 10% glycerol; 3 mM MgCl <sub>2</sub> ; 5 mM beta-mercaptoethanol; 1 mM PMSF; 1 mM Benzamidine                                               |
| <b>Reconstitution</b> | Clear solution in 30 mM Tris, pH7.4, 150 mM NaCl, 40% Glycerol, 5 mM DTT                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ME1 malic enzyme 1, NADP(+)-dependent, cytosolic [ Homo sapiens (human) ]                                                                                                                                   |
| <b>Official Symbol</b> | ME1                                                                                                                                                                                                         |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 4199                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_002395                                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_002386                                                                                                                                                                                                   |

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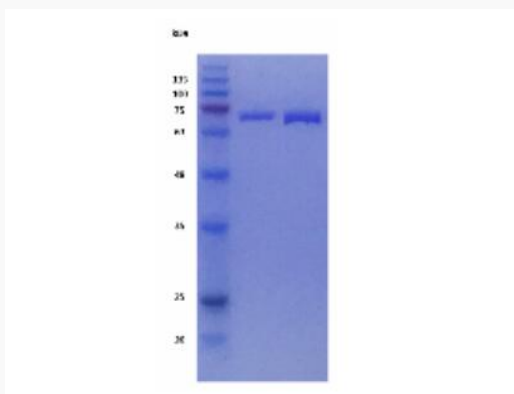
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MIM 154250

UniProt ID P48163

SDS-PAGE



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