

Product Datasheet

Recombinant Human Malic Enzyme 2, His (orb1905971)

Catalog Number	orb1905971
Category	Proteins
Description	Recombinant Human Malic Enzyme 2, His
Form/Appearance	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Protein Sequence	MLHIKEKGKP LMLNPRTNKG MAFTLQERQM LGLQGLLPPK IETQDIQALR FHRNLKKMTS PLEKYIYIMG IQRNEKLFY RILQDDIESL MPIVYTPTVG LACSQYGHIF RRPKGLFISI SDRGHVRSIV DNWPENHVKA VVVDGERIL GLGDLGVYGM GIPVGKLCY TACAGIRPDR CLPVCIDVGT DNIALLKDPF YMGLYQKRDR TQQYDDLIDE FMKAITDRYG RNTLIQFEDF GNHNAFRFLR KYREKYCTFN DDIQGTAAVA LAGLLAAQKV ISKPISEHKI LFLGAGEAAL GIANLIVMSM VENGLSEQEA QKKIWMFDKY GLLVKGRKAK IDSYQEPFTH SAPESIPDTF EDAVNILKPS TIIGVAGAGR LFTPDVIRAM ASINERPVIF ALSNPTAQAE CTAEAYTLT EGRCLFASGS PFGPVKLTG RVFTPGQGNN VYIFPGVALA VILCNTRHIS DSVFLEAACA LTSQLTDEEL AQGRLYPPLA NIQEVSNIA IKVTEYLYAN KMAFRYPEPE DKAKYVKERT WRSEYDSSLP DVYEWPEAS SPPVITEHHH HHH
UniProt ID	P23368
MW	Approximately 64.4 kDa, a single non-glycosylated polypeptide chain containing 573 amino acids with 6 x His at C-terminus.
Expression System	Escherichia coli
Endotoxins	Less than 1 EU/ugof rHuME2, His as determined by LAL method.
Source	Escherichia coli

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Biological Activity

Malic Enzyme activity was assayed spectrophotometrically at 340nm as described in Mandela and Sauer (1975). The standard reaction mixture contained 50 mM Tris-HCl, 3 mM MnCl₂, 5 mM malate, 0.12 mM NADP⁺, 2.5 mM fumarate. Assay was performed in a Beckman spectrophotometer. The K_m value is 1.5 μ M 0.6 mM.

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Note

For research use only

Expiration Date

6 months from date of receipt.

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