

Optimize Your Research

Recombinant Human Malic Enzyme 2, His protein

Code CD01308

Storage: This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Intended Use

This product is for research use only, not for use in diagnosis procedures. It is highly recommended to read this instruction entirely before the use.

Source

Escherichia coli.

Molecular Weight

Approximately 64.4 kDa, a single non-glycosylated polypeptide chain containing 573 amino acids with 6 × His at C-terminus.

Purity

> 95 % by SDS-PAGE and HPLC analyses.

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 ± 0.6 mM.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Sequence

MLHIKEKPK LMLNPRTNKG MAFTLQERQM LGLQGLLPPK IETQDIQALR FHRNLKKMTS PLEKYIYIMG IQERNEKLFY RILQDDIESL
MPIVYTPTVG LACSQYGHIF RRPKGLFISI SDRGHVRSIV DNWPENHVKA VVVDGERIL GLGDLGVYGM GIPVGLKCLY TACAGIRPDR
CLPVCIDVGT DNIALLKDPF YMGLYQKRDR TQYDDLIDE FMKAITDRYG RN

Endotoxin

Less than 1 EU/µg of rHuME2, His as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

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