

NAD-ME Protein, Human, Recombinant (His)

General Information

Synonyms: mitochondrial;Malic enzyme 2;ME2;NAD-dependent malic enzyme, mitochondrial;NAD-ME

Protein Construction: 19-584 aa

Species: Human

Expression Host: E. coli

Accession: P23368

Molecular Weight: 64.4 kDa (Predicted)

AA Sequence: MLHIKEKGKPLMLNPRTNKGMAFTLQERQMLGLQGLLPKIETQDIQALRFHRNLKMTSPLEKYIYIMGIQER
NEKLFYRILQDDIESLMPIVYTPVGLACSQYGHIFRRPKGLFISISDRGHVRSIVDNWPENHVKAVVVTDGERIL
GLGDLGVYGMGIPVGKLCCLYTACAGIRPDRCLPVCIDVGTDNIALLKDPFYMGLYQKRDRDRTQQYDDLIDEFMK
AITDRYGRNTLIQFEDFGNHNAFRFLRKYREKYCTFNDDIQGTAVALAGLLAAQKVISKPISEHKILFLGAGEA
ALGIANLIVMSMVENGLSEQAQKKIWMFDKYGLLVKGRKAKIDSYQEPFTHSAPESIPDTFEDAVNILKPKSTII
GVAGAGRLFTPDVIRAMASINERPVIFALSNPATAEAEEAYTLTEGRCLFASGSPFGPVKLTDRVFTPGQ
GNNVYIFPGVALAVILCNTRHISDSVFLEAAKALTSQLTDEELAQGRLYPPLANIQEVSINIAIKVTEYLYANKM
AFRYPEPEDKAKYVKERTWRSEYDSLLPDVYEWPESSPPVITE+HHHHHH

QC Testing

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 Km value is 1.5 ± 0.6 mM

Purity: >95% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from a 0.2 μm filtered PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481