Recombinant MDHM protein (His tag)

Catalog Number	544601
Species	Human
Expression System	E. coli
Accession	P40926
Molecular Weight	Predictes a molecular mass of 34.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	25-338
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 25-338 aa (P40926) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Malate dehydrogenase, mitochondrial (EC 1.1.1.37) fragment (residues 25-338) is a high-quality protein preparation ideal for structural biology and enzymatic studies. This 314-amino acid fragment represents a stable, soluble domain computationally optimized for robust performance in biochemical assays. Malate dehydrogenase, mitochondrial (encoded by the MDH2 gene) is a key enzyme in the citric acid cycle, catalyzing the reversible oxidation of malate to oxaloacetate. According to UniProt annotation (P40926), this enzyme is localized to the mitochondrial matrix, where it plays a crucial role in cellular energy metabolism. The mitochondrial localization underscores its importance in aerobic respiration and energy production pathways.