# Recombinant MDH1B protein (His tag)

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| **Catalog Number** | 550899 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q5I0G3 |
| **Molecular Weight** | Predictes a molecular mass of 54.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band. |

## Product Information

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| **Sequence Region** | 1-467 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >86%, 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 1-467 aa (Q5I0G3) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human Putative Malate Dehydrogenase 1B (MDH1B) Fragment (aa 1-467) is a high-quality protein preparation designed for structural biology and biochemical studies. This 467-amino acid fragment represents a stable and soluble unit of the enzyme, carefully selected through computational analysis to ensure optimal performance in research applications.<br>Putative Malate Dehydrogenase 1B (EC 1.1.1.-) is encoded by the MDH1B gene in Homo sapiens. As a putative malate dehydrogenase, this enzyme is implicated in the malate-aspartate shuttle and cellular energy metabolism pathways. The specific functional characteristics and subcellular localization of the full-length protein require further experimental validation to fully elucidate its biological role and significance in human physiology. |