

Recombinant Human MDH1 protein, His & GST-tagged

Cat. No. MDH1-1546H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MDH1 aa. (Ser2~Ala334 (Accession # P40925)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser2~Ala334
Description	This gene encodes an enzyme that catalyzes the NAD/NADH-dependent, reversible oxidation of malate to oxaloacetate in many metabolic pathways, including the citric acid cycle. Two main isozymes are known to exist in eukaryotic cells: one is found in the mitochondrial matrix and the other in the cytoplasm. This gene encodes the cytosolic isozyme, which plays a key role in the malate-aspartate shuttle that allows malate to pass through the mitochondrial membrane to be transformed into oxaloacetate for further cellular processes. Alternatively spliced transcript variants have been found for this gene. A recent study showed that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is localized in the peroxisomes. Pseudogenes have been identified on chromosomes X and 6.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 66.3kDa

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	6.9

GENE INFORMATION

Gene Name	MDH1 malate dehydrogenase 1 [Homo sapiens (human)]
Official Symbol	MDH1
Synonyms	MDH1; malate dehydrogenase 1; MDHA; MOR2; MDH-s; HEL-S-32; MGC:1375; malate dehydrogenase, cytoplasmic; malate dehydrogenase, peroxisomal; cytosolic malate dehydrogenase; diiodophenylpyruvate reductase; epididymis secretory protein Li 32; malate dehydrogenase 1, NAD (soluble); soluble malate dehydrogenase

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Gene ID	4190
mRNA Refseq	NM_001199111.1
Protein Refseq	NP_001186040.1
UniProt ID	P40925

SDS-PAGE

