

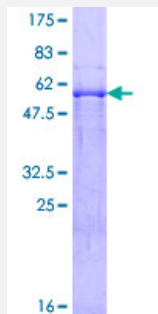
Full-Length

MDH2 (Human) Recombinant Protein (P01)

Catalog # H00004191-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MDH2 full-length ORF (NP_005909.2, 1 a.a. - 338 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MLSALARPASAALRRSFSTSAQNNAKVAVLGASGGIGQPLSLLKNSPLVSRLTYDIAHTPGVAA
DLSHIETKAAVKGYLGPEQLPDCLKGCDVVIPAGVPRKPGMTRDDLNTNATVATLTAACAQH
CPEAMICVIANPVNSTIPITAEVFKKHGVNPNKIFGVTTLDIVRANTFVAELKGLDPARVNVPIGG
HAGKTIPLISQCTPKVDFPQDQLTALTGRIQEAGTEVVKAKAGAGSATLSMAYAGARFVFSLVDA
MNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKNLGIGKVSSFEKMSDAIPELKASIKKGED
FVKTLK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

61.9

Interspecies Antigen Sequence

Mouse (95); Rat (94)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MDH2

Entrez GeneID[4191](#)**GeneBank Accession#**[NM_005918.2](#)**Protein Accession#**[NP_005909.2](#)**Gene Name**

MDH2

Gene Alias

M-MDH, MDH, MGC:3559, MOR1

Gene Description

malate dehydrogenase 2, NAD (mitochondrial)

Omim ID[154100](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Malate dehydrogenase catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. The protein encoded by this gene is localized to the mitochondria and may play pivotal roles in the malate-aspartate shuttle that operates in the metabolic coordination between cytosol and mitochondria. [provided by RefSeq]

Other Designations

mitochondrial malate dehydrogenase

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)

- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Carbon fixation in photosynthetic organisms](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glyoxylate and dicarboxylate metabolism](#)
- [Metabolic pathways](#)
- [Pyruvate metabolism](#)
- [Reductive carboxylate cycle \(CO₂ fixation\)](#)

Disease

- [Tobacco Use Disorder](#)