Active Recombinant Human MDH2

Cat. No. MDH2-1093H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MDH2 (NP_005909, 25 a.a. - 338 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
ProteinLength	25-338 a.a.
Description	MDH2 is one of the two malate dehydrogenases. Malate dehydrogenase catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. In particular, MDH2 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.
Sequence	MGSSHHHHHH SSGLVPRGSH MAKVAVLGAS GGIGQPLSLL LKNSPLVSRL TLYDIAHTPG VAADLSHIET KAAVKGYLGP EQLPDCLKGC DVVVIPAGVP RKPGMTRDDL FNTNATIVAT LTAACAQHCP EAMICVIANP VNSTIPITAE VFKKHGVYNP NKIFGVTTLD IVRANTFVAE LKGLDPARVN VPVIGGHAGK TIIPLISQCT PKVDFPQDQL TALTGRIQEA GTEVVKAKAG AGSATLSMAY AGARFVFSLV DAMNGKEGVV ECSFVKSQET ECTYFSTPLL LGKKGIEKNL GIGKVSSFEE KMISDAIPEL KASIKKGEDF VKTLK
Theoretical MW (kDa)	35.2

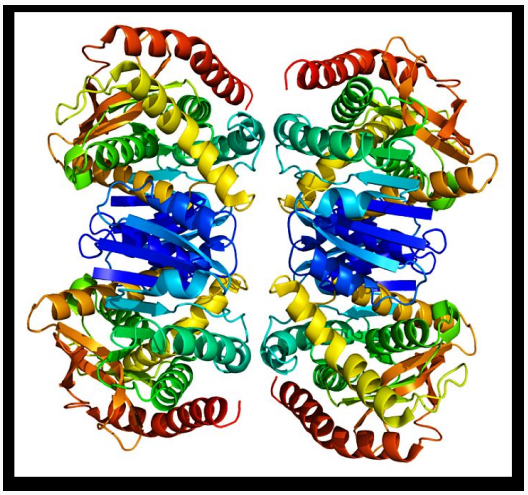
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Form	Liquid
Preparation Method	E. coli expression system
Purity	> 95% by SDS-PAGE
Activity	Specific activity is > 30 units/mg, and is defined as the amount of enzyme that cleaves 1umole of oxalacetate and beta-NADH to L-malate and beta-NAD per minute at pH7.5 at 25°C.
Application	SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl, pH 7.5 (10% glycerol)
Storage	Store at 4°C for 1-2 weeks. For long term storage store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P40926

GENE INFORMATION

Gene Name	MDH2 malate dehydrogenase 2, NAD (mitochondrial) [Homo sapiens]
Official Symbol	MDH2
Synonyms	MDH2; malate dehydrogenase 2, NAD (mitochondrial); OTTHUMP00000210118; malate dehydrogenase, mitochondrial; MDH; MOR1; M-MDH; MGC:3559; EC 1.1.1.37
Gene ID	4191

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mRNA Refseq	NM_005918
Protein Refseq	NP_005909
MIM	154100
Chromosome Location	7cen-q22
Function	L-malate dehydrogenase activity; malate dehydrogenase (NADP+) activity; oxidoreductase activity; protein self-association
PDBrendering based on 1mld.	

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