



# Recombinant Human Malate dehydrogenase, mitochondrial (MDH2)

<b>Product Code</b>	CSB-EP013623HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P40926
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	AKVAVL GASGGIGQPL SLLLKNSPLV SRLTLYDIAH TPGVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA GVPRKPGMTR DDLFNTNATI VATLTAACAQ HCPEAMICVI ANPVNSTIPI TAEVFKKHGV YNPKNIFGVT TLDIVRANTF VAELKGLDPA RVNVPVIGGH AGKTIIP LIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGGKKGIE KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLLK
<b>Source</b>	E.coli
<b>Target Names</b>	MDH2
<b>Protein Names</b>	Recommended name: Malate dehydrogenase, mitochondrial EC= 1.1.1.37
<b>Expression Region</b>	25-338
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	Malate dehydrogenase catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. This protein 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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.