

Datasheet for ABIN7321179

MDH1 Protein (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	MDH1
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MDH1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat MDH1 Protein (His Tag)
Sequence:	Met 4-Ala 334
Characteristics:	A DNA sequence encoding the rat MDH1 (O88989) (Met 4-Ala 334) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE

Target Details

Target:	MDH1
Alternative Name:	MDH1 (MDH1 Products)
Background:	Background: Malate dehydrogenases 1(MDH1 / MDHA) is soluble form of malate dehydrogenases. Malate dehydrogenases (MDH) is a group of multimeric enzymes consisting of identical subunits usually organized as either dimer or tetramers with subunit molecular weights of 30-35 kDa. MDH has been isolated from different sources including archaea,

Target Details

eubacteria, fungi, plant and mammals. MDH catalyzes the NAD/NADH-dependent interconversion of the substrates malate and oxaloacetate. This reaction plays a key part in the malate / aspartate shuttle across the mitochondrial membrane, and in the tricarboxylic acid cycle within the mitochondrial matrix. The enzymes share a common catalytic mechanism and their kinetic properties are similar, which demonstrates a high degree of structural similarity. The three-dimensional structures and elements essential for catalysis are conserved between mitochondrial and cytoplasmic forms of MDH in eukaryotic cells even though these isoenzymes are only marginally related at the level of primary structure.

Synonym: MDL1;Mdh1;Mor2

Molecular Weight: 38 kDa

UniProt: [O88989](#)

Application Details

Restrictions: For Research Use only

Handling

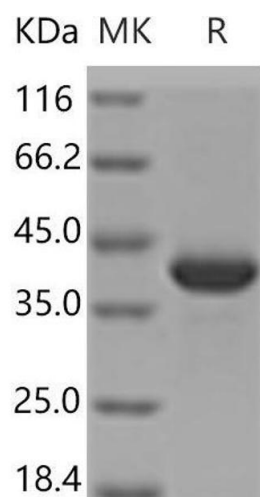
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM Tris, 10 % glycerol, pH 8.0

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.