

Product datasheet

Recombinant human MDH2 protein ab99238

1 References 1 Image

Description

**Product name** Recombinant human MDH2 protein

**Biological activity** Specific activity is > 30 units/mg, and is defined as the amount of enzyme that cleaves 1 umole of oxalacetate and beta-NADH to L-malate and beta-NAD per minute at pH7.5 at 25°C

**Activity Assay**

Prepare assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 100 mM Potassium phosphate, 0.13mM beta-nicotinamide adenine dinucleotide, reduced form, 0.25mM oxalacetic acid.

Add recombinant MDH protein with various concentrations (0.1ug, 0.5ug, 1ug) in assay buffer.

Mix by inversion and equilibrate to 1°C and monitor at A340nm until the value is constant using a spectrophotometer.

Record the increase at A340nm for approximately 2 minutes

**Purity** > 95 % SDS-PAGE.  
ab99238 is purified using conventional chromatography techniques.

**Expression system** Escherichia coli

**Accession** [P40926](#)

**Protein length** Full length protein

**Animal free** No

**Nature** Recombinant

**Species** Human

**Sequence** **MGSSHHHHHSSGLVPRGSHMAKVAVLGASGGIGQPLS**  
 LLLKNSPLVSRL  
 TLYDIAHTPGVAADLSHIETKAAVKGYLGPEQLPDCLKGC  
 DVVVIPAGVP  
 RKPGMTRDDL FNTNATVATLTAACAQHCPEAMICVIANPV  
 NSTIPITAE  
 VFKKHGVYNPKNIFGVTTLDIMRANTFVAELKGLDPARVNV  
 PVIGGHAGK  
 TIIP LISQCTPKVDFPQDQLTALTGRIQEAGTEVVKAKAGAG  
 SATLSMAY  
 AGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPL  
 LLGKKGIEKNL  
 GIGKVSSFEEKMISDAIPELKASIKKGEDFVKTLK

<b>Predicted molecular weight</b>	35 kDa including tags
<b>Amino acids</b>	25 to 338
<b>Tags</b>	His tag N-Terminus

## Specifications

Our [Abpromise guarantee](#) covers the use of **ab99238** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE Mass Spectrometry Functional Studies
<b>Mass spectrometry</b>	MALDI-TOF
<b>Form</b>	Liquid

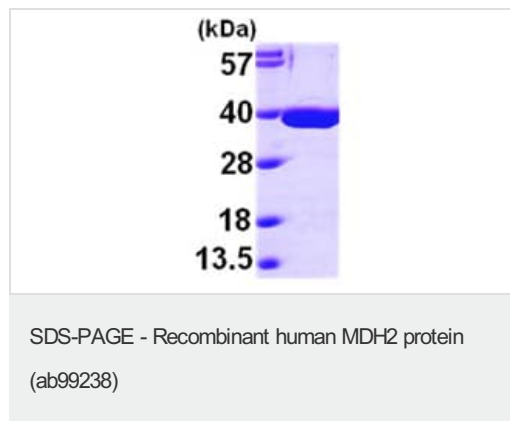
## Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 7.50 Constituents: 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## General Info

<b>Sequence similarities</b>	Belongs to the LDH/MDH superfamily. MDH type 1 family.
<b>Post-translational modifications</b>	Acetylation is enhanced by up to 67% after treatment either with trichostin A (TSA) or with nicotinamide (NAM) with the appearance of tri- and tetraacetylations. Glucose also increases acetylation by about 60%.
<b>Cellular localization</b>	Mitochondrion matrix.

## Images



15% SDS-PAGE showing ab99238 at approximately 35.2kDa (3µg).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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