

## Product datasheet

# Recombinant Human MTH1 protein ab99390

[2 References](#) [1 Image](#)

### Description

<b>Product name</b>	Recombinant Human MTH1 protein
<b>Purity</b>	> 95 % SDS-PAGE. ab99390 is purified using conventional chromatography techniques.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P36639</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<b>MGSSHHHHHHSSGLVPRGSH</b> MGASRLYTLVLVLQPQRV LLGMKKRGFGAG RWNGFGGKVQEGETIEDGARRELQEESGLTVDALHKVG QVFEFVGEPEL MDVHVFC TDSIQGTPVESDEMPCWFQLDQIPFKDMWP DDSYWFP LLLQK KKFHGYFKFQGQDTILDYTLREVDTV
<b>Predicted molecular weight</b>	20 kDa including tags
<b>Amino acids</b>	1 to 156
<b>Tags</b>	His tag N-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab99390** 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
<b>Mass spectrometry</b>	MALDI-TOF
<b>Form</b>	Liquid

### Preparation and Storage

**Stability and Storage** Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles.

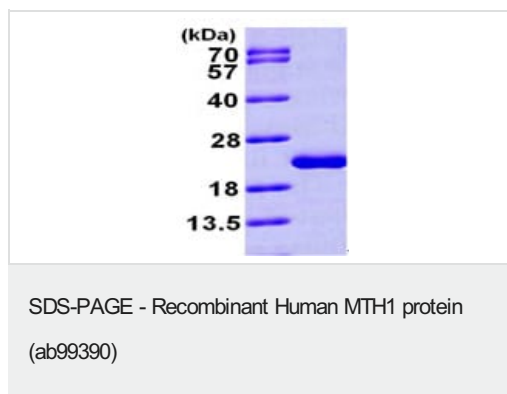
pH: 8.00

Constituents: 0.0308% DTT, 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

## General Info

<b>Function</b>	Antimutagenic. Acts as a sanitizing enzyme for oxidized nucleotide pools, thus suppressing cell dysfunction and death induced by oxidative stress. Hydrolyzes 8-oxo-dGTP, 8-oxo-dATP and 2-OH-dATP, thus preventing misincorporation of oxidized purine nucleoside triphosphates into DNA and subsequently preventing A:T to C:G and G:C to T:A transversions. Able to hydrolyze also the corresponding ribonucleotides, 2-OH-ATP, 8-oxo-GTP and 8-oxo-ATP. Does not play a role in U8 snoRNA decapping activity. Binds U8 snoRNA.
<b>Tissue specificity</b>	Widely expressed with highest expression in thymus, testis, embryo and proliferating blood lymphocytes.
<b>Sequence similarities</b>	Belongs to the Nudix hydrolase family. Contains 1 nudix hydrolase domain.
<b>Developmental stage</b>	In peripheral blood lymphocytes, expressed at much higher levels in proliferating cells than in resting cells.
<b>Post-translational modifications</b>	The N-terminus is blocked.
<b>Cellular localization</b>	Cytoplasm. Mitochondrion matrix and Cytoplasm. Mitochondrion matrix. Nucleus. Mostly present in cytoplasm. Variant Met-124 has decreased efficiency in translocation to mitochondria.

## Images



15% SDS-PAGE analysis of 3µg ab99390.

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

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- Response to your inquiry within 24 hours

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