

## Product datasheet

# Recombinant Human Methylmalonyl Coenzyme A mutase protein ab114834

1 Image

### Overview

---

<b>Product name</b>	Recombinant Human Methylmalonyl Coenzyme A mutase protein
<b>Protein length</b>	Full length protein

### Description

---

<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ

### Amino Acid Sequence

<b>Accession</b>	<a href="#">P22033</a>
<b>Species</b>	Human
<b>Sequence</b>	MLRAKNQLFLLSPHYLRQVKESSGSRLIQQRLLHQQQPLHPEWAALAKKQ LKGKNPEDLIWHTPEGISIKPLYSKGDTMDLPEELPGVKPFTRGPYPTMY TFRPWITRQYAGFSTVEESNKFYKDNKAGQQGLSVAFDLATHRGYSDN PRVRGDVGMAGVAIDTVEDTKILFDGIPLEKMSVSMTMNGAVIPVLANFI VTGEEQGVPEKLTGTIQNDILKEFMVRNTYIFPPEPSMKIADIFEYTA KHMPKFNSISISGYHMQEAGADAILELAYTLADGLEYSRTGLQAGLTIDE FAPRLSFFWGIGMNFYMEIAKMRAGRRLWAHLIEKMFQPKNSKSLLLRAH CQTSGWSL TEQDPYNNIVRTAIEAMAAVFGGTQSLHTNSFDEALGLPTVK SARIARNTQIIQEESGIPKVADPWGGSYMMECTNDVYDAALKLINEIE EMGGMAKAVAEGIPKLRIEECAARRQARIDSGSEVIVGVNKYQLEKEDTV EVLAIIDNTSVRNRQIEKLLKIKSSRDQALAERCLAALTECAASGDGNILA LAVDASRARCTVGEITDALKKVFGEHKANDRMVSGAYRQEFGESKEITSA IKRVHKFMEREGRRPRLLVAKMGQDGHDRGAKVIATGFADLGFVDIGPL FQTPREVAQQAVDADVHAVGVNTLAAGHKTLVPELIKELNSLGRPDILVM CGGVIPPQDYEFLEFVGVSNVFGPGTRIPKAAVQVLDLDIEKCLEKKQQSV
<b>Molecular weight</b>	109 kDa including tags
<b>Amino acids</b>	1 to 750

### Specifications

---

Our [Abpromise guarantee](#) covers the use of **ab114834** 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>	ELISA SDS-PAGE Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	Protein concentration is above or equal to 0.05 mg/ml. Best used within three months from the date of receipt.

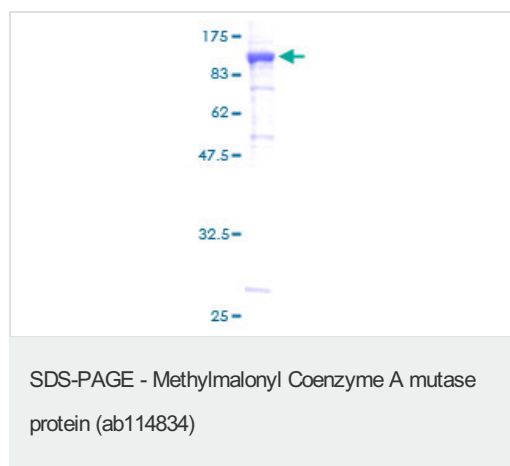
## Preparation and Storage

<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
------------------------------	---

## General Info

<b>Function</b>	Involved in the degradation of several amino acids, odd-chain fatty acids and cholesterol via propionyl-CoA to the tricarboxylic acid cycle. MCM has different functions in other species.
<b>Involvement in disease</b>	Defects in MUT are the cause of methylmalonic aciduria type mut (MMAM) [MIM:251000]. MMAM is an often fatal disorder of organic acid metabolism. Common clinical features include lethargy, vomiting, failure to thrive, hypotonia, neurological deficit and early death. Two forms of the disease are distinguished by the presence (mut-) or absence (mut0) of residual enzyme activity. Mut0 patients have more severe neurological manifestations of the disease than do MUT- patients. MMAM is unresponsive to vitamin B12 therapy.
<b>Sequence similarities</b>	Belongs to the methylmalonyl-CoA mutase family. Contains 1 B12-binding domain.
<b>Cellular localization</b>	Mitochondrion matrix.

## Images



ab114834 analyzed on a 12.5% SDS-PAGE gel stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

## **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors