abcam

Product datasheet

Recombinant Human Methylmalonyl Coenzyme A mutase protein ab114834

1 Image

Overview

Product name	Recombinant Human Methylmalonyl Coenzyme A mutase protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Wheat germ

Amino Acid Sequence

Accession	P22033
Species	Human
Sequence	MLRAKNQLFLLSPHYLRQVKESSGSRLIQQRLLHQQQPLHPEWAALAKKQ LKGKNPEDLIWHTPEGISIKPLYSKGDTMDLPEELPGVKPFTRGPYPTMY TFRPWTIRQYAGFSTVEESNKFYKDNIKAGQQGLSVAFDLATHRGYDSDN PRVRGDVGMAGVAIDTVEDTKILFDGIPLEKMSVSMTMNGAVIPVLANFI VTGEEQGVPKEKLTGTIQNDILKEFMVRNTYIFPPEPSMKIIADIFEYTA KHMPKFNSISISGYHMQEAGADAILELAYTLADGLEYSRTGLQAGLTIDE FAPRLSFFWGIGMNFYMEIAKMRAGRRLWAHLIEKMFQPKNSKSLLLRAH CQTSGWSLTEQDPYNNIVRTAIEAMAAVFGGTQSLHTNSFDEALGLPTVK SARIARNTQIIIQEESGIPKVADPWGGSYMMECLTNDVYDAALKLINEIE EMGGMAKAVAEGIPKLRIEECAARRQARIDSGSEVIVGVNKYQLEKEDTV EVLAIDNTSVRNRQIEKLKKIKSSRDQALAERCLAALTECAASGDGNILA LAVDASRARCTVGEITDALKKVFGEHKANDRMVSGAYRQEFGESKEITSA IKRVHKFMEREGRRPRLLVAKMGQDGHDRGAKVIATGFADLGFDVDIGPL FQTPREVAQQAVDADVHAVGVNTLAAGHKTLVPELIKELNSLGRPDILVM CGGVIPPQDYEFLFEVGVSNVFGPGTRIPKAAVQVLDDIEKCLEKKQQSV
Molecular weight	109 kDa including tags
Amino acids	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.

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml. Best used within three months from the date of receipt.

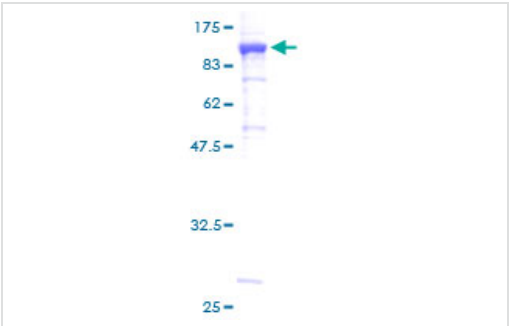
Preparation and Storage

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

General Info

Function	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.
Involvement in disease	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.
Sequence similarities	Belongs to the methylmalonyl-CoA mutase family. Contains 1 B12-binding domain.
Cellular localization	Mitochondrion matrix.

Images



SDS-PAGE - Methylmalonyl Coenzyme A mutase protein (ab114834)

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

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