abcam

Product datasheet

Recombinant Human MLYCD/MCD protein ab161633

1 Image

Description

Product name	Recombinant Human MLYCD/MCD protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MRGFGPGLTARRLLPLRLPPRPPGPRLASGQAAGALERA MDELLRRAVPP TPAYELREKTPAPAEGQCADFVSFYGGLAETAQRAELLG RLARGFGVDHG QVAEQSAGVLHLRQQQREAAVLLQAEDRLRYALVPRYRG LFHHISKLDGG VRFLVQLRADLLEAQALKLVEGPDVREMNGVLKGMLSE WFSSGFLNLERV TWHSPCEVLQKISEAEAVHPVKNWMDMKRRVGPYRRCY FFSHCSTPGEPL VVLHVALTGDISSNIQAIVKEHPPSETEEKNKITAAIFYSISLT QQGLQG VELGTFLIKRVVKELQREFPHLGVFSSLSPIPGFTKWLLGL LNSQTKEHG RNELFTDSECKEISEITGGPINETLKLLLSSSEWVQSEKLV RALQTPLMR LCAWYLYGEKHRGYALNPVANFHLQNGAVLWRINWMADV SLRGITGSCGL MANYRYFLEETGPNSTSYLGSKIIKASEQVLSLVAQFQKNS KL
Amino acids	1 to 493
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab161633** in the following tested applications.

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

Applications	Western blot ELISA
Form	Liquid
Additional notes	This product was previously labelled as MLYCD.

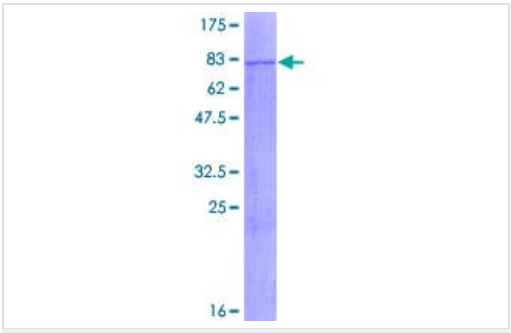
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Catalyzes the conversion of malonyl-CoA to acetyl-CoA. In the fatty acid biosynthesis MCD selectively removes malonyl-CoA and thus assures that methyl-malonyl-CoA is the only chain elongating substrate for fatty acid synthase and that fatty acids with multiple methyl side chains are produced. In peroxisomes it may be involved in degrading intraperoxisomal malonyl-CoA, which is generated by the peroxisomal beta-oxidation of odd chain-length dicarboxylic fatty acids.
Pathway	Metabolic intermediate biosynthesis; acetyl-CoA biosynthesis; acetyl-CoA from malonyl-CoA: step 1/1.
Involvement in disease	Malonyl-CoA decarboxylase deficiency (MLYCD deficiency) [MIM:248360]: Autosomal recessive disease characterized by abdominal pain, chronic constipation, episodic vomiting, metabolic acidosis and malonic aciduria. Note=The disease is caused by mutations affecting the gene represented in this entry.
Cellular localization	Mitochondrion. Cytoplasm. Peroxisome.

Images



SDS-PAGE - Recombinant Human MLYCD/MCD protein (ab161633)

ab161633 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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