abcam

Product datasheet

Recombinant Human ACAT1 protein ab137175

1 Image

Description

Product name Recombinant Human ACAT1 protein

Purity > 95 % SDS-PAGE.

ab137175 is purified using conventional chromatography techniques.

Expression system Escherichia coli

Accession P24752

Protein length Full length protein

Animal free No

Nature Recombinant

Species Human

Sequence MGSSHHHHHH SSGLVPRGSH MGSVSKPTLK

EVVIVSATRT PIGSFLGSLS LLPATKLGSI AIQGAIEKAG

IPKEEVKEAY MGNVLQGGEG QAPTRQAVLG AGLPISTPCT TINKVCASGM KAIMMASQSL MCGHQDVMVA GGMESMSNVP YVMNRGSTPY

GGVKLEDLIV KDGLTDVYNK IHMGSCAENT AKKLNIARNE

QDAYAINSYT RSKAAWEAGK FGNEVIPVTV TVKGQPDVVV KEDEEYKRVD FSKVPKLKTV FQKENGTVTA ANASTLNDGA AALVLMTADA

AKRLNVTPLA RIVAFADAAV EPIDFPIAPV YAASMVLKDV GLKKEDIAMW EVNEAFSLVV LANIKMLEID PQKVNINGGA

VSLGHPIGMS GARIVGHLTH ALKQGEYGLA

SICNGGGGAS AMLIQKL

Predicted molecular weight 44 kDa including tags

Amino acids 34 to 427

Tags His tag N-Terminus

Specifications

Our <u>Abpromise guarantee</u> covers the use of ab137175 in the following tested applications.

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

Applications SDS-PAGE

Mass Spectrometry

1

Mass spectrometry

MALDI-TOF

Form

Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

pH: 7.50

Constituents: 0.02% DTT, 0.32% Tris HCl, 10% Glycerol, 0.58% Sodium chloride

General Info

Function

Plays a major role in ketone body metabolism.

Involvement in disease

Defects in ACAT1 are a cause of 3-ketothiolase deficiency (3KTD) [MIM:203750]; also known as alpha-methylacetoaceticaciduria. 3KTD is an inborn error of isoleucine catabolism characterized by intermittent ketoacidotic attacks associated with unconsciousness. Some patients die during an attack or are mentally retarded. Urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, triglylglycine, butanone is increased. It seems likely that the severity of this

disease correlates better with the environmental or acquired factors than with the ACAT1

genotype.

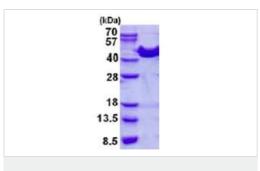
Sequence similarities

Belongs to the thiolase family.

Cellular localization

Mitochondrion.

Images



SDS-PAGE - Recombinant Human ACAT1 protein

(ab137175)

15% SDS-PAGE analysis of ab137175 (3µg)

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

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