

Datasheet for ABIN7544375
ACAA2 Protein (AA 1-397) (His tag)



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Overview

Quantity:	1 mg
Target:	ACAA2
Protein Characteristics:	AA 1-397
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACAA2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ACAA2 Protein expressed in mammalian cells.
Sequence:	<p>MALLRGV FV V AAKRTPFGAY GLLKDF TAT DLSEFAAKAA LSAGKVSPET VDSVIMGNVL QSSSDAIYLA RHVGLRVGIP KETPALTINR LCGSGFQSIV NGCQEICVKE AEVVLCGGTE SMSQAPYCV R NVRFGTKLGS DIKLEDSLWV SLTDQHVQLP MAMTAENLAV KHKISREECD KYALQSQRW KAANDAGYFN DEMAPIEVKT KKGKQTMQVD EHARPQT TLE QLQKLPPVFK KDGTVTAGNA SGVADGAGAV IIASEDAVKK HNFTPLARIV GYFVSGCDPS IMGIGPVPAI SGALKKAGLS LKDMDLVEVN EAFAPQYLAV ERSLLDISK TNVNGGAIAL GHPLGGSGSR ITAHLVHEL R RRGKYAVGS ACIGGGQGIA VIIQSTA Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

ACAA2

Alternative Name:

ACAA2 ([ACAA2 Products](#))

Background:

3-ketoacyl-CoA thiolase, mitochondrial (EC 2.3.1.16) (Acetyl-CoA acetyltransferase) (EC 2.3.1.9) (Acetyl-CoA acyltransferase) (Acyl-CoA hydrolase, mitochondrial) (EC 3.1.2.-, EC 3.1.2.1, EC 3.1.2.2) (Beta-ketothiolase) (Mitochondrial 3-oxoacyl-CoA thiolase) (T1),FUNCTION: In the production of energy from fats, this is one of the enzymes that catalyzes the last step of the mitochondrial beta-oxidation pathway, an aerobic process breaking down fatty acids into acetyl-CoA (Probable). Using free coenzyme A/CoA, catalyzes the thiolytic cleavage of medium- to long-chain unbranched 3-oxoacyl-CoAs into acetyl-CoA and a fatty acyl-CoA shortened by two carbon atoms (Probable). Also catalyzes the condensation of two acetyl-CoA molecules into acetoacetyl-CoA and could be involved in the production of ketone bodies (Probable). Also displays hydrolase activity on various fatty acyl-CoAs (PubMed:25478839). Thereby, could be responsible for the production of acetate in a side reaction to beta-oxidation (Probable). Abolishes BNIP3-mediated apoptosis and mitochondrial damage (PubMed:18371312). {ECO:0000269|PubMed:18371312, ECO:0000269|PubMed:25478839,

Target Details

ECO:0000305|PubMed:25478839}.

Molecular Weight: 41.9 kDa

UniProt: [P42765](#)

Pathways: [Monocarboxylic Acid Catabolic Process](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months