

Datasheet for ABIN7552001
ACSL4 Protein (AA 1-711) (His tag)



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Overview

Quantity:	1 mg
Target:	ACSL4
Protein Characteristics:	AA 1-711
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACSL4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ACSL4 Protein expressed in mammalian cells.
Sequence:	MKLKLNVLTI ILLPVHLLIT IYSALIFIPW YFLTNAKKNK AMAKRIKAKP TSDKPGSPYR SVTHFDLAV IDIPGADTLD KLFDAVSKF GKKDSLGTRE ILSEENEMQP NGKVFKKLIL GNYKWMNYLE VNRRVNNFGS GLTALGLKPK NTIAIFCETR AEWMIQAQTC FKYNFPLVTL YATLGKEAVV HGLNESEASY LITVELLES KLKTALLDIS CVKHIIYVDN KAINKAEYPE GFEIHSMSQSV EELGSPENL GIPPSRPTPS DMAIVMYTSG STGRPKGVMH HHSNLIAGMT GQCERIPGLG PKDITYGYLP LAHVLELTAE ISCFTYGCRI GYSSPLTSD QSSKIKKGSK GDCTVLKPTL MAAVPEIMDR IYKNVMSKVQ EMNYIQKTLF KIGYDYKLEQ IKKGYDAPLC NLLLFFKKVKA LLGGNVRMML SGGAPLSPQT HRFMNVCFCC PIGQGYGLTE SCGAGTVTEV TDYTTGRVGA PLICCEIKLK DWQEGGYTIN DKPNPRGEIV IGGQNISMGY FKNEEKTAED YSVDENGQRW FCTGDIGEFH PDGCLQIIDR KKDLVKLQAG EYVSLGKVEA ALKNCPIDN ICAFKSDQS YVISFVVPNQ KRLTLAQQK GVEGTWVDIC NNPAMEAEIL KEIREANAM

Product Details

KLERFEIPIK VRLSPEPWTP ETGLVTDAFK LKRKELRNHY LKDIERMYGG K **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

ACSL4

Alternative Name:

ACSL4 ([ACSL4 Products](#))

Background:

Long-chain-fatty-acid--CoA ligase 4 (EC 6.2.1.3) (Arachidonate--CoA ligase) (EC 6.2.1.15) (Long-chain acyl-CoA synthetase 4) (LACS 4),FUNCTION: Catalyzes the conversion of long-chain fatty acids to their active form acyl-CoA for both synthesis of cellular lipids, and degradation via beta-oxidation (PubMed:24269233, PubMed:22633490, PubMed:21242590). Preferentially activates arachidonate and eicosapentaenoate as substrates (PubMed:21242590). Preferentially activates 8,9-EET > 14,15-EET > 5,6-EET > 11,12-EET. Modulates glucose-stimulated insulin secretion by regulating the levels of unesterified EETs (By similarity). Modulates prostaglandin E2 secretion (PubMed:21242590). {ECO:0000250|UniProtKB:O35547, ECO:0000269|PubMed:21242590, ECO:0000269|PubMed:22633490,

Target Details

ECO:0000269|PubMed:24269233}.

Molecular Weight: 79.2 kDa

UniProt: [O60488](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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