

Datasheet for ABIN7564607

ACSL5 Protein (AA 1-683) (His tag)



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Overview

Quantity:	1 mg
Target:	ACSL5
Protein Characteristics:	AA 1-683
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACSL5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AcsI5 Protein expressed in mammalien cells.
Sequence:	<p>MLFIFNFLFS PLPTPALICL LTFGTAIFLW LINRPQPVLP LIDLNDQSVG IEGGARRGAF</p> <p>QKNNDLILYY FSDAKTLYEN FQRGLAVSDN GPCLGYRKPN QPYKWISYKQ VSDRAEYLGS</p> <p>CLLHKGYKSS QDQFVGIFAQ NRPEWVISEL ACYTYSMVAV PLYDTLGTEA IIFVINRADI</p> <p>PVVICDTPQK ATMLVENVEK GLTPGLKTII LMDPFDDDL M KRGEKCGVEM LSLHDAENIG</p> <p>KENFKKPVPP KPEDLSVICF TSGTTGDPKG AMLTHENVVS NMAAFLKFLE PIFQPTSDDV</p> <p>TISYLPLAHM FERLVQGILF SCGGKIGFFQ GDIRLLPDDM KALKPTVFPT VPRLLNRVYD</p> <p>KVQNEAKTPL KKFLNLAI SKFNEVKNGI IRRDSLWDKL VFSKIQGS LG GKVRLMITGA</p> <p>APISTPVLTF FRAAMGCWVF EAYGQTECTG GCSITSPGDW TAGHVGTPVA CNFVKLEDVA</p> <p>DMNYFSVNNE GEICIKGNV FKGYLKDPEK TQEVLDKDGW LHTGDIGRWL PNGTLKIVDR</p> <p>KKNIFKLAQG EYIAPEKIEN VYSRSPVLQ VVHGESLRS FLIGVVVPDP DSLPSFAAKI</p> <p>GVKGSFEELC KNQCVKEAIL EDLQKIGKEG GLKSFEQVKS IFVHPEPFTI ENGLLTPTLK</p>

AKRVELAKFF QTQIKSLYES IEE **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:

ACSL5

Alternative Name:

AcsI5 ([ACSL5 Products](#))

Background:

Long-chain-fatty-acid--CoA ligase 5 (EC 6.2.1.3) (Arachidonate--CoA ligase) (EC 6.2.1.15) (Long-chain acyl-CoA synthetase 5) (LACS 5),FUNCTION: Catalyzes the conversion of long-chain fatty acids to their active form acyl-CoAs for both synthesis of cellular lipids, and degradation via beta-oxidation (By similarity). ACSL5 may activate fatty acids from exogenous sources for the synthesis of triacylglycerol destined for intracellular storage (By similarity). It was suggested that it may also stimulate fatty acid oxidation (By similarity). At the villus tip of the crypt-villus axis of the small intestine may sensitize epithelial cells to apoptosis specifically triggered by the death ligand TRAIL (By similarity). May have a role in the survival of glioma cells (By similarity). Utilizes a wide range of saturated fatty acids with a preference for C16-C18 unsaturated fatty acids (By similarity). {ECO:0000250, ECO:0000250|UniProtKB:O88813}.

Target Details

Molecular Weight: 76.2 kDa

UniProt: [Q8JZR0](#)

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