

Datasheet for ABIN7563230

ACSL1 Protein (AA 1-699) (His tag)



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Overview

Quantity:	1 mg
Target:	ACSL1 (Acs1)
Protein Characteristics:	AA 1-699
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACSL1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Acs1 Protein expressed in mammalian cells.
Sequence:	<p>MEVHELFRYF RMPOLIDIRQ YVRTLPTNTL MGFGAFAALT TFWYATRPKA LKPPCDLSMQ</p> <p>SVEIAGTTDG IRRSAVLEDD KLLVYYYDDV RTMYDGFQRG IQVSNNGPCL GSRKPNQPYE</p> <p>WISYKEVAEL AECIGSLIQ KGFKPCSEQF IGLFSQNRPE WVIVEQCFCFS YSMVVVPLYD</p> <p>TLGADAITYI VNKAELSVIF ADKPEKAKLL LEGVENKLTP CLKIIVIMDS YGSDLVERGK</p> <p>KCGVEIISLK ALEDLGRVNR VKPKPPEPED LAICFTSGT TGNPKGAMIT HQNIINDCSG</p> <p>FIKATESAFI ASTDDVLISF LPLAHMFETV VECVMLCHGA KIGFFQGDIR LLMDLKLVLQ</p> <p>PTIFPVVPR LNRMFDRIFG QANTSLKRWL LDFASKRKEA ELRSGIVRNN SLWDKLIFHK</p> <p>IQSSLGGKVR LMITGAAPVS ATVLTLFLRTA LGCQFYEGYG QTECTAGCCL SLPGDWTAGH</p> <p>VGAPMPCNYV KLVDVEEMNY LASKGEGEVC VKGANVFKGY LKDPARTAEA LDKDGWLHTG</p> <p>DIGKWLPNGT LKIIDRKKHI FKLAQGEYIA PEKIENIYLR SEAVAQVFVH GESLQAFLIA</p> <p>VVVPDVESLP SWAQKRGLQG SFEELCRNKD INKAILDDL KLGKEAGLKP FEQVKGIAPH</p>

PELFSIDNGL LTPTLKAKRP ELRNYFRSQI DELYATIKI **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	ACSL1 (Acsl1)
Alternative Name:	Acsl1 (Acsl1 Products)
Background:	<p>Long-chain-fatty-acid--CoA ligase 1 (EC 6.2.1.3) (Arachidonate--CoA ligase) (EC 6.2.1.15) (Long-chain acyl-CoA synthetase 1) (LACS 1) (Phytanate--CoA ligase) (EC 6.2.1.24),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). Preferentially uses palmitoleate, oleate and linoleate (By similarity). Preferentially activates arachidonate than epoxyeicosatrienoic acids (EETs) or hydroxyeicosatrienoic acids (HETEs).</p> <p>{ECO:0000250 UniProtKB:P18163, ECO:0000250 UniProtKB:P33121}.</p>
Molecular Weight:	78.0 kDa

Target Details

UniProt: [P41216](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

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