

Datasheet for ABIN7551877

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



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Overview

Quantity:	1 mg
Target:	ACSL5
Protein Characteristics:	AA 1-683
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACSL5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ACSL5 Protein expressed in mammalian cells.
Sequence:	<p>MLFIFNLFSLPPTPALICI LTFGAAIFLW LITRPQPVLP LLDLNNQSVG IEGGARKGVS</p> <p>QKNNDLTSCC FSDAKTMYEV FQRGLAVSDN GPCLGYRKPN QPYRWLSYKQ VSDRAEYLGS</p> <p>CLLHKGYKSS PDQFVGIFAQ NRPEWISEL ACYTYSMVAV PLYDTLGPEA IVHIVNKADI</p> <p>AMVICDTPQK ALVLIGNVEK GFTPSLVKVI LMDPFDDDLK QRGEKSGIEI LSLYDAENLG</p> <p>KEHFRKPVPP SPEDLSVICF TSGTTGDPKG AMITHQNIQS NAAAFKLCVE HAYEPTPDDV</p> <p>AISYLPLAHM FERIVQAVVY SCGARVGFFQ GDIRLLADDM KTLKPTLFPA VPRLLNRIYD</p> <p>KVQNEAKTPL KKFLKLAVS SKFKELQKGI IRHDSFWDKL IFAKIQDSLQ GRVRVIVTGA</p> <p>APMSTSVMTF FRAAMGCQVY EAYGQTECTG GCTFTLPGDW TSGHVGVPPL CNYVKLEDVA</p> <p>DMNYFTVNNE GEVCIKGTNV FKGYLKDPEK TQEALDSDGW LHTGDIGRWL PNGTLKIIDR</p> <p>KKNIFKLAQG EYIAPEKIEN IYNRSQPVQ IFVHGESLRS SLVGVVVPDT DVLPSFAAKL</p> <p>GVKGSFEELC QNQVVREAIL EDLQKIGKES GLKTFEQVKA IFLHPEPFSI ENGLLTPTLK</p> <p>AKRGELSKYF RTQIDSLYEH IQD Sequence without tag. The proposed Purification-Tag is</p>

Product Details

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.

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.

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: ACSL5

Alternative Name: ACSL5 ([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 (PubMed:17681178, PubMed:24269233, PubMed:22633490, PubMed:33191500). ACSL5 may activate fatty acids from exogenous sources for the synthesis of triacylglycerol destined for intracellular storage (By similarity). Utilizes a wide range of saturated fatty acids with a preference for C16-C18 unsaturated fatty acids (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

Target Details

	triggered by the death ligand TRAIL. May have a role in the survival of glioma cells. {ECO:0000250, ECO:0000269 PubMed:17681178, ECO:0000269 PubMed:18806831, ECO:0000269 PubMed:19459852, ECO:0000269 PubMed:22633490, ECO:0000269 PubMed:24269233, ECO:0000269 PubMed:33191500}.
Molecular Weight:	76.0 kDa
UniProt:	Q9ULC5

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