

Datasheet for ABIN7552000

ACSL1 Protein (AA 1-698) (His tag)



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Overview

Quantity:	1 mg
Target:	ACSL1 (Acs1)
Protein Characteristics:	AA 1-698
Origin:	Human
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 ACSL1 Protein expressed in mammalian cells.
Sequence:	MQAHELFRYF RMP ELVD FRQ YVRTLPNTNL MGFGAFAALT TFWYATRPKP LKPPCDLSMQ SVEVAGSGGA RRSALLDSDE PLVYFYDDVT TLYEGFQ RGI QVSNNGPCLG SRKPDQPYEW LSYKQVAELS ECIGSALI QK GFKTAPDQFI GIFAQNRPEW VIIEQGCFAY SMVIVPLYDT LGNEAITYIV NKAELSLVFV DKPEKAKLLL EGVENKLIPG LKIIIVMDAY GSELVERGQR CGVEVTS MKA MEDLGRANRR KPKPPAPEDL AVICFTSGTT GNPKGAMVTH RNIVSDCSAF VKATENTVNP CPDDTLISFL PLA HMFERVV ECVMLCHGAK IGFFQGD IRL LMDDLKVLQP TVFPVVPRL NRMFDRIFGQ ANTTLKRWLL DFASKRKEAE LRSGIIRNNS LWDRLIFHKV QSSLGGRVRL MVTGAAPVSA TVLTF LRAAL GCQFYEGYGQ TECTAGCCLT MPGDWTAGHV GAPMPCNLIK LVDVEEMNYM AAEGEGEVCV KGPNVFQGYL KDPAKTAEAL DKDGWLHTGD IGKWLPNGTL KIIDRKKHIF KLAQGEYIAP EK IENIYMRS EPVAQVFVHG ESLQAFLIAI VVPDVETLCS WAQKRGFE GS FEELCRNKDV KKAILED MVR LGKD SGLKPF EQVKGITLHP

ELFSIDNGLL TPTMKAKRPE LRNYFRSQID DLYSTIKV **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:	ACSL1 (Acs1)
Alternative Name:	ACSL1 (Acs1 Products)
Background:	Long-chain-fatty-acid--CoA ligase 1 (EC 6.2.1.3) (Acyl-CoA synthetase 1) (ACS1) (Arachidonate--CoA ligase) (EC 6.2.1.15) (Long-chain acyl-CoA synthetase 1) (LACS 1) (Long-chain acyl-CoA synthetase 2) (LACS 2) (Long-chain fatty acid-CoA ligase 2) (Palmitoyl-CoA ligase 1) (Palmitoyl-CoA ligase 2) (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 (PubMed:24269233, PubMed:22633490, PubMed:21242590). Preferentially uses palmitoleate, oleate and linoleate (PubMed:24269233). Preferentially activates arachidonate than epoxyeicosatrienoic acids (EETs) or hydroxyeicosatrienoic acids (HETEs) (By similarity). {ECO:0000250 UniProtKB:P18163, ECO:0000269 PubMed:21242590,

Target Details

	ECO:0000269 PubMed:22633490, ECO:0000269 PubMed:24269233}.
Molecular Weight:	77.9 kDa
UniProt:	P33121
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