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Datasheet for ABIN7555425 SLC27A1 Protein (AA 1-646) (His tag)

3 Images



Overview

Quantity:	1 mg
Target:	SLC27A1 (FATP1)
Protein Characteristics:	AA 1-646
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC27A1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC27A1 Protein expressed in mammalian cells.
Sequence:	MRAPGAGAAS VVSLALLWLL GLPWTWSAAA ALGVYVGSGG WRFLRIVCKT ARRDLFGLSV
	LIRVRLELRR HQRAGHTIPR IFQAVVQRQP ERLALVDAGT GECWTFAQLD AYSNAVANLF
	RQLGFAPGDV VAIFLEGRPE FVGLWLGLAK AGMEAALLNV NLRREPLAFC LGTSGAKALI
	FGGEMVAAVA EVSGHLGKSL IKFCSGDLGP EGILPDTHLL DPLLKEASTA PLAQIPSKGM
	DDRLFYIYTS GTTGLPKAAI VVHSRYYRMA AFGHHAYRMQ AADVLYDCLP LYHSAGNIIG
	VGQCLIYGLT VVLRKKFSAS RFWDDCIKYN CTVVQYIGEI CRYLLKQPVR EAERRHRVRL
	AVGNGLRPAI WEEFTERFGV RQIGEFYGAT ECNCSIANMD GKVGSCGFNS RILPHVYPIR
	LVKVNEDTME LLRDAQGLCI PCQAGEPGLL VGQINQQDPL RRFDGYVSES ATSKKIAHSV
	FSKGDSAYLS GDVLVMDELG YMYFRDRSGD TFRWRGENVS TTEVEGVLSR LLGQTDVAVY
	GVAVPGVEGK AGMAAVADPH SLLDPNAIYQ ELQKVLAPYA RPIFLRLLPQ VDTTGTFKIQ
	KTRLQREGFD PRQTSDRLFF LDLKQGHYLP LNEAVYTRIC SGAFAL Sequence without tag. The
	proposed Purification-Tag is based on experiences with the expression system, a different

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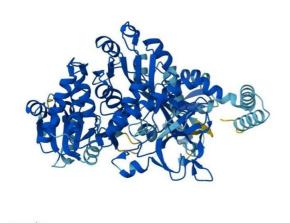
	complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	 Key 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:	SLC27A1 (FATP1)
Alternative Name:	SLC27A1 (FATP1 Products)
Background:	Long-chain fatty acid transport protein 1 (ArachidonateCoA ligase) (EC 6.2.1.15) (Fatty acid
	transport protein 1) (FATP-1) (Long-chain-fatty-acidCoA ligase) (EC 6.2.1.3) (Solute carrier
	family 27 member 1) (Very long-chain acyl-CoA synthetase) (EC 6.2.1),FUNCTION: Mediates
	the import of long-chain fatty acids (LCFA) into the cell by facilitating their transport at the
	plasma membrane (PubMed:12556534, PubMed:20530735, PubMed:21395585,
	PubMed:28178239). Also functions as an acyl-CoA ligase catalyzing the ATP-dependent
	formation of fatty acyl-CoA using LCFA and very-long-chain fatty acids (VLCFA) as substrates,
	which prevents fatty acid efflux from cells and might drive more fatty acid uptake. May act
	directly as a bona fide transporter, or alternatively, in a cytoplasmic or membrane-associated

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	multimeric protein complex to trap and draw fatty acids towards accumulation. Plays a pivotal role in regulating available LCFA substrates from exogenous sources in tissues undergoing high levels of beta-oxidation or triglyceride synthesis. May be involved in regulation of cholesterol metabolism (By similarity). Probably involved in fatty acid transport across the blood barrier (PubMed:21395585). {ECO:0000250 UniProtKB:Q60714, ECO:0000269 PubMed:12556534, ECO:0000269 PubMed:20530735, ECO:0000269 PubMed:21395585, ECO:0000269 PubMed:28178239}.
Molecular Weight:	71.1 kDa
UniProt:	Q6PCB7
Pathways:	Inositol Metabolic Process, Regulation of Lipid Metabolism by PPARalpha
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



Protein Structure

Image 1. AlphaFold protein structure predicition of Human Recombinant SLC27A1 Protein, UniprotID Q6PCB7

Protein Structure

Image 2. AlphaFold protein structure predicition of Human Recombinant SLC27A1 Protein, UniprotID Q6PCB7

Protein Structure

Image 3. AlphaFold protein structure predicition of Human Recombinant SLC27A1 Protein, UniprotID Q6PCB7

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