Datasheet for ABIN7555384

SLC27A5 Protein (AA 1-690) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC27A5
Protein Characteristics:	AA 1-690
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC27A5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC27A5 Protein expressed in mammalian cells.
Sequence:	MGVRQQLALL LLLLLLLWGL GQPVWPVAVA LTLRWLLGDP TCCVLLGLAM LARPWLGPWV PHGLSLAAAA LALTLLPARL PPGLRWLPAD VIFLAKILHL GLKIRGCLSR QPPDTFVDAF ERRARAQPGR ALLVWTGPGA GSVTFGELDA RACQAAWALK AELGDPASLC AGEPTALLVL ASQAVPALCM WLGLAKLGCP TAWINPHGRG MPLAHSVLSS GARVLVVDPD LRESLEEILP KLQAENIRCF YLSHTSPTPG VGALGAALDA APSHPVPADL RAGITWRSPA LFIYTSGTTG LPKPAILTHE RVLQMSKMLS LSGATADDVV YTVLPLYHVM GLVVGILGCL DLGATCVLAP KFSTSCFWDD CRQHGVTVIL YVGELLRYLC NIPQQPEDRT HTVRLAMGNG LRADVWETFQ QRFGPIRIWE VYGSTEGNMG LVNYVGRCGA LGKMSCLLRM LSPFELVQFD MEAAEPVRDN QGFCIPVGLG EPGLLLTKVV SQQPFVGYRG PRELSERKLV RNVRQSGDVY YNTGDVLAMD REGFLYFRDR LGDTFRWKGE NVSTHEVEGV LSQVDFLQQV NVYGVCVPGC EGKVGMAAVQ LAPGQTFDGE KLYQHVRAWL PAYATPHFIR IQDAMEVTST FKLMKTRLVR EGFNVGIVVD PLFVLDNRAQ SFRPLTAEMY QAVCEGTWRL **Sequence without tag. The proposed**

Product Details

	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.
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:	SLC27A5
Alternative Name:	SLC27A5 (SLC27A5 Products)
Background:	Long-chain fatty acid transport protein 5 (FATP-5) (Fatty acid transport protein 5) (Bile acid-CoA ligase) (BA-CoA ligase) (BAL) (Bile acyl-CoA synthetase) (BACS) (EC 6.2.1.7) (Cholate--CoA ligase) (Fatty-acid-coenzyme A ligase, very long-chain 3) (Long-chain-fatty-acid--CoA ligase) (EC 6.2.1.3) (Solute carrier family 27 member 5) (Very long-chain acyl-CoA synthetase homolog 2) (VLCS-H2) (VLCSH2) (EC 6.2.1.-) (Very long-chain acyl-CoA synthetase-related protein) (VLACS-related) (VLACSR),FUNCTION: May mediate the import of long-chain fatty acids (LCFA) by facilitating their transport across cell membranes (PubMed:20448275, PubMed:20530735). Also catalyzes the ATP-dependent formation of fatty acyl-CoA using LCFA and very-long-chain

Target Details

	fatty acids (VLCFA) as substrates (PubMed:10479480). Mainly functions as a bile acyl-CoA synthetase catalyzing the activation of bile acids via ATP-dependent formation of bile acid CoA thioesters which is necessary for their subsequent conjugation with glycine or taurine (PubMed:10749848, PubMed:11980911). Both primary bile acids (cholic acid and chenodeoxycholic acid) and secondary bile acids (deoxycholic acid and lithocholic acid) are the principal substrates (PubMed:10749848, PubMed:11980911). In vitro, activates 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanate ((25R)-3alpha,7alpha,12alpha-trihydroxy-5beta-cholestan-26-oate or THCA), the C27 precursor of cholic acid deriving from the de novo synthesis from cholesterol (PubMed:11980911). Plays an important role in hepatic fatty acid uptake and bile acid reconjugation and recycling but not in de novo synthesis of bile acids (By similarity). {ECO:0000250|UniProtKB:Q4LDG0, ECO:0000269|PubMed:10479480, ECO:0000269|PubMed:10749848, ECO:0000269|PubMed:11980911, ECO:0000269|PubMed:20448275, ECO:0000269|PubMed:20530735}.
Molecular Weight:	75.4 kDa
UniProt:	Q9Y2P5

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