Recombinant Human SLC27A2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SLC27A2-6196H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SLC27A2 MS Standard C13 and N15-labeled recombinant protein (NP_003636) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is an isozyme of long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. This isozyme activates long-chain, branched-chain and very-long-chain fatty acids containing 22 or more carbons to their CoA derivatives. It is expressed primarily in liver and kidney, and is present in both endoplasmic reticulum and peroxisomes, but not in mitochondria. Its decreased peroxisomal enzyme activity is in part responsible for the biochemical pathology in X-linked adrenoleukodystrophy. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	70.1 kDa
AA Sequence	MLSAIYTVLAGLLFLPLLVNLCCPYFFQDIGYFLKVAAVGRRVRSYGKRRPARTILRAF LEKARQTPHKPFLLFRDETLTYAQVDRRSNQVARALHDHLGLRQGDCVALLMGNEP

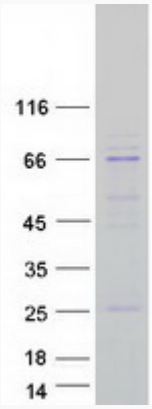
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	AYVWLWLGLVKLGCAMACLNYNIRAKSLLHCFQCCGAKVLLVSPELQAAVEEILPSL KKDDVSIYYVSRTSNTDGIDSFLDKVDEVSTEPIPESWRSEVTFSTPALYIYTSGTTGL PKAAMITHQRIWYGTGLTFVSGLKADDVIYITLPFYHSAALLIGIHGCIVAGATLALRTK FSASQFWDDCRKYNVTVIQYIGELLRYLCNSPQKPNDRDHKVRLALGNGLRGDVW RQFVKRFGDICIYEFYAATEGNIGFMNYARKVGAVGRVNYLQKKIITYDLIKYDVEKD EPVRDENGYCVRVPKGEVGLLVCKITQLTPFNGYAGAKAQTEKKKLRDVFKKGDLY FNSGDLLMVDHENFIYFHDRVGDTFRWKGENVATTEVADTVGLVDFVQEVNVYGV HVPDHEGRIGMASIKMKENHEFDGKKLFQHIADYLPSYARPRFLRIQDTIEITGTFKH RKMTLVEEGFNPAVIKDALYFLDDTAKMYVPMTEDIYNAISAKTLKLTRTRPLEQKLIS EEDLAANDILDYKDDDDKV	
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	SLC27A2 solute carrier family 27 member 2 [Homo sapiens (human)]
Official Symbol	SLC27A2
Synonyms	SLC27A2; solute carrier family 27 (fatty acid transporter), member 2; FACVL1; very long-chain acyl-CoA synthetase; ACSVL1; FATP2; hFACVL1; HsT17226; VLACS; VLCS; FATP-2; THCA-CoA ligase; fatty acid transport protein 2; long-chain-fatty-acid-

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	-CoA ligase; solute carrier family 27 member 2; very-long-chain acyl-CoA synthetase; very long-chain-fatty-acid-CoA ligase; very long-chain fatty-acid-coenzyme A ligase 1; fatty-acid-coenzyme A ligase, very long-chain 1;
Gene ID	11001
mRNA Refseq	NM_003645
Protein Refseq	NP_003636
MIM	603247
UniProt ID	O14975
SDS-PAGE	

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