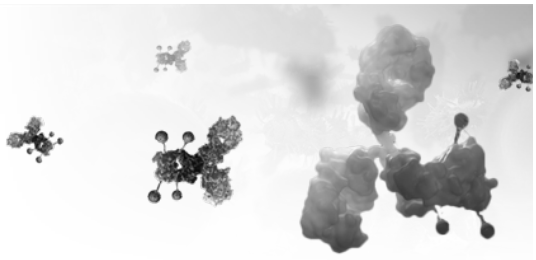

# Human SLC27A2 peptide (DAG-P1137)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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|---|---|
| **Antigen 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. [provided by RefSeq, Apr 2009] |
| **Specificity** | Expressed in liver, kidney, placenta and pancreas. |
| **Purity** | 70 - 90% by HPLC. |
| **Conjugate** | Unconjugated |
| **Sequence Similarities** | Belongs to the ATP-dependent AMP-binding enzyme family. |
| **Format** | Liquid |
| **Preservative** | None |
| **Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request. |

## GENE INFORMATION

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| **Gene Name** | SLC27A2 solute carrier family 27 (fatty acid transporter), member 2 [ Homo sapiens (human) ] |
| **Official Symbol** | SLC27A2 |

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|---|---|
| **Synonyms** | SLC27A2; solute carrier family 27 (fatty acid transporter), member 2; VLCS; FATP2; VLACS; ACSVL1; FACVL1; hFACVL1; HsT17226; very long-chain acyl-CoA synthetase; FATP-2; THCA-CoA ligase; fatty acid transport protein 2; long-chain-fatty-acid--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; |
| **Entrez Gene ID** | 11001 |
| **mRNA Refseq** | NM_001159629.1 |
| **Protein Refseq** | NP_001153101.1 |
| **UniProt ID** | O14975 |
| **Chromosome Location** | 15q21.2 |
| **Pathway** | Alpha-oxidation of phytanate, organism-specific biosystem; Bile acid and bile salt metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem; PPAR signaling pathway, conserved biosystem; Peroxisomal lipid metabolism, organism-specific biosystem; Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem; Synthesis of bile acids and bile sal |
| **Function** | ATP binding; enzyme binding; fatty acid transporter activity; long-chain fatty acid-CoA ligase activity; phytanate-CoA ligase activity; pristanate-CoA ligase activity; receptor binding; very long-chain fatty acid-CoA ligase activity; |

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