

Very long-chain acyl-CoA synthetase Recombinant Protein | SLC27A2 recombinant protein

Recombinant Human Very long-chain acyl-CoA synthetase

CATALOG #
AAA114552

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

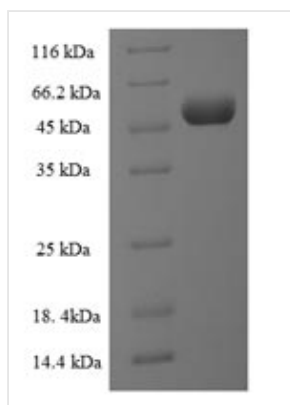
PRODUCT SYNONYMS

Very long-chain acyl-CoA synthetase; Recombinant Human Very long-chain acyl-CoA synthetase; Fatty acid transport protein 2; FATP-2; Fatty-acid-coenzyme A ligase; very long-chain 1; Long-chain-fatty-acid-CoA ligase (EC:6.2.1.3); Solute carrier family 27 member 2; THCA-CoA ligase; Very long-chain-fatty-acid-CoA ligase; SLC27A2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	283-620aa; Cytoplasmic Domain
Sequence	GATLALRTKF SASQFWDDCR KYNVTVIQYI GELLRYLCNS PQKPNDRDHK VRLALGNGLR GDVWRQFVKR FGDICIYEFY AATEGNIGFM NYARKVGAVG RVNYLQKKII TYDLIKYDVE KDEPVRDENG YCVRVPKGEV GLLVCKITQL TPFNGYAGAK AQTEKKKLRD VFKKGDLYFN SGDLLMVDHE NFIYFHDRVG DTFRWKGENV ATTEVADTVG LVDFVQEVNV YGVHVPDHEG RIGMASIKMK ENHEFDGKKL FQHIADYLPY YARPRFLRIQ DTIEITGTFK HRKMTLVEEG FNPVAVIKDAL YFLDDTAKMY VPMTEDIYNA ISAKTLKL
Sequence Length	567
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SLC27A2 recombinant protein

Acyl-CoA synthetase probably involved in bile acid metabolism. Proposed to activate C27 precursors of bile acids to their CoA thioesters derivatives before side chain cleavage via peroxisomal beta-oxidation occurs. In vitro, activates 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanate (THCA), the C27 precursor of cholic acid deriving from the de novo synthesis from cholesterol. Does not utilize C24 bile acids as substrates. In vitro, also activates long- and branched-chain fatty acids and may have additional roles in fatty acid metabolism. May be involved in translocation of long-chain fatty acids (LFCA) across membranes.

Product Categories/Family for SLC27A2 recombinant protein	Metabolism
References	Molecular cloning of a possible human homolog of the rat very-long-chain acyl-CoA synthetase cDNA and its chromosomal localization.Uchiyama A., Aoyama T., Kamiyo K., Wakui K., Fukushima Y., Shimozawa N., Suzuki Y., Kondo N., Orii T., Hashimoto T. Human very-long-chain acyl-CoA synthetase cloning, topography, and relevance to branched-chain fatty acid metabolism.Steinberg S.J., Wang S.J., Kim D.G., Mihalik S.J., Watkins P.A.Biochem. Biophys. Res. Commun. 257:615-621(1999) Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohara N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) Suzuki Y., Sugano S., Totoki Y., Toyoda A., Takeda T., Sakaki Y., Tanaka A., Yokoyama S. Analysis of the DNA sequence and duplication history of human chromosome 15.Zody M.C., Garber M., Sharpe T., Young S.K., Rowen L., O'Neill K., Whittaker C.A., Kamal M., Chang J.L., Cuomo C.A., Dewar K., FitzGerald M.G., Kodira C.D., Madan A., Qin S., Yang X., Abbasi N., Abouelleil A., Arachchi H.M., Baradarani L., Birditt B., Bloom S., Bloom T., Borowsky M.L., Burke J., Butler J., Cook A., DeArellano K., DeCaprio D., Dorris L. III, Dors M., Eichler E.E., Engels R., Fahey J., Fleetwood P., Friedman C., Gearin G., Hall J.L., Hensley G., Johnson E., Jones C., Kamat A., Kaur A., Locke D.P., Madan A., Munson G., Jaffe D.B., Lui A., Macdonald P., Mauceli E., Naylor J.W., Nesbitt R., Nicol R., O'Leary S.B., Ratcliffe A., Rounsley S., She X., Sneddon K.M.B., Stewart S., Sougnez C., Stone S.M., Topham K., Vincent D., Wang S., Zimmer A.R., Birren B.W., Hood L., Lander E.S., Nusbaum C.Nature 440:671-675(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	227499621
NCBI GeneID	11001
NCBI Accession #	NP_001153101.1
NCBI GenBank Nucleotide #	NM_001159629.1
UniProt Accession #	O14975; Q53FY6; Q6PF09; A8K2J7
Molecular Weight	40.8 kDa
NCBI Official Full Name	very long-chain acyl-CoA synthetase isoform 2
NCBI Official Synonym Full Names	solute carrier family 27 (fatty acid transporter), member 2
NCBI Official Symbol	SLC27A2
NCBI Official Synonym Symbols	VLCS; FATP2; VLACS; ACSVL1; FACVL1; hFACVL1; HsT17226
NCBI Protein Information	very long-chain acyl-CoA synthetase
UniProt Protein Name	Very long-chain acyl-CoA synthetase
UniProt Gene Name	SLC27A2
UniProt Synonym Gene Names	ACSVL1; FACVL1; FATP2; VLACS; VLACS; VLCS; FATP-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/slc27a2-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114552>