

Recombinant Full Length Human ACSL4 Protein, GST-tagged

Cat. No. ACSL4-796HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ACSL4 full-length ORF (NP_004449.1, 1 a.a. - 670 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	670 amino acids
Description	The protein encoded by this gene is an isozyme of the 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 preferentially utilizes arachidonate as substrate. The absence of this enzyme may contribute to the mental retardation or Alport syndrome. Alternative splicing of this gene generates multiple transcript variants. [provided by RefSeq, Jan 2016]
Molecular Mass	100.8 kDa
AA Sequence	MAKRIKAKPT SDKPGSPYRS VTHFDSLAVI DIPGADTLDK LFDHAVSKFG KKDSLGTREI LSEENEMQPN GKVFKKLILG NYKWMNYLEV NRRVNNFGSG LTALGLKPKN TIAIFCETRA EWMIAAQTCF KYNFPLVTLY ATLGKEAVVH GLNESEASYL ITSVELLESK LKTALLDISC VKHIIYVDNK AINKAEYPEG FEIHSMQSVE ELGSPENLG IPPSRTPSD MAIVMYTSGS TGRPKGVM MH

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HSNLIAGMTG QCERIPGLGP KDTYIGYLPL AHVLELTAEI SCFTYGCRIG
 YSSPLTSDQ SSKIKKGSKG DCTVLKPTLM AAVPEIMDRI YKNVMSKVQE
 MNYIQKTLFK IGYDYKLEQI KKGYDAPLCN LLLFKKVKAL LGGNVRMMLS
 GGAPLSPQTH RFMNVCFCCP IGQGYGLTES CGAGTVTEVT DYTTRVGVGAP
 LICCEIKLKD WQEGGYTIND KPNPRGEIVI GGQNISMGYF KNEEKTAEDY
 SVDENGQRWF CTGDIGEFHP DGCLQIIDRK KDLVKLQAGE YVSLGKVEAA
 LKNCPLIDNI CAFAKSDQSY VISFVVPNQK RLTLAQKKG VEGTWVDICN
 NPAMEAEILK EIREANAMK LERFEIPIKV RLSPEPWTPPE TGLVTDFAKL
 KRKELRNHYL KDIERMYGGK

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [ACSL4 acyl-CoA synthetase long-chain family member 4 \[Homo sapiens \]](#)

Official Symbol [ACSL4](#)

Synonyms ACSL4; acyl-CoA synthetase long-chain family member 4; FACL4, fatty acid Coenzyme A ligase, long chain 4 , mental retardation, X linked 63 , mental retardation, X linked 68 , MRX63, MRX68; long-chain-fatty-acid--CoA ligase 4; long chain fatty acid Coenzyme A ligase 4; ACS4; LACS4; lignoceroyl CoA synthase; LACS 4; acyl-CoA synthetase 4; lignoceroyl-CoA synthase; long-chain acyl-CoA

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synthetase 4; long-chain fatty-acid-Coenzyme A ligase 4; fatty-acid-Coenzyme A ligase, long-chain 4; FACL4; MRX63; MRX68

Gene ID 2182

mRNA Refseq NM_004458

Protein Refseq NP_004449

MIM 300157

UniProt ID O60488

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