

Recombinant Human ACSL4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACSL4-5997H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACSL4 MS Standard C13 and N15-labeled recombinant protein (NP_075266) 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 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 cognitive disability or Alport syndrome. Alternative splicing of this gene generates multiple transcript variants.
Molecular Mass	79 kDa
AA Sequence	MKLKLNVLTIILLPVHLLITIYSALIFIPWYFLTNAKKKNAMAKRIKAKPTSDKPGSPYRS VTHFDSLAVIDIPGADTLDKLFDHAVSKFGKKDSLGTREILSEENEMQPNGKVFKKLIL GNYKWMNYLEVNRVRNNFGSGLTALGLKPKNTIAIFCETRAEWMIAAQTCFKYNFPL VTLYATLGKEAVVHGLNESEASYLITSVELLESKLKTALLDISCVKHIIYVDNKAINKAE YPEGFEIHSMQSVEELGSPENLGIPPSRPTPSDMAIVMYTSGSTGRPKGVMMHHS

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NLIAGMTGQCERIPGLGPKDTYIGYLPLAHVLELTAEISCFTYGCRIGYSSPLTSLSDQS
 SKIKKGSKGDCTVLKPTLMAAVPEIMDRIYKNVMSKVQEMNYIQKTLFKIGYDYKLEQ
 IKKGYDAPLCNLLLFFKKVKALLGGNVRMMLSGGAPLSPQTHRFMNVCFCCPIGQGY
 GLTESCGAGTVTEVTDYTTGRVGAPLICCEIKLKDQEGGYTINDKPNRGEIVIGG
 QNISMGYFKNEEKTAEDYSVDENGQRWFCTGDIGEFHPDGCLQIIDRKKDLVKLQA
 GEYVSLGKVEAALKNCPLIDNICAFKSDQSYVISFVVPNQKRLTLAQQKGVEGTW
 VDICNNPAMEAEILKEIREAANAMKLERFEIPIKVRLSPEPWTPETGLVTDFAFKLKRKE
 LRNHLYKDIERMYGGKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

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 synthetase 4;

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

Gene ID [2182](#)

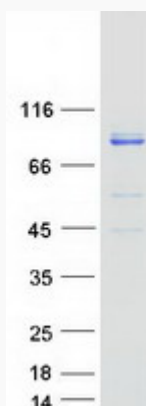
mRNA Refseq [NM_022977](#)

Protein Refseq [NP_075266](#)

MIM [300157](#)

UniProt ID [O60488](#)

SDS-PAGE



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