

Recombinant Human ACSL4 Protein, GST-tagged

Cat. No. ACSL4-198H **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	Wheat Germ
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	MAKRIKAKPTSDKPGSPYRSVTHFDSLAVIDIPGADTLDKLFDHAVSKFGKKDSLGR EILSEENEMQPNGKVFKKLILGNYKWMNYLEVNRVNNFGSGLTALGLKPKNTIAIFC ETRAEWMIAAQTCFKYNFPLVTLYATLGKEAVVHGLNESEASYLITSVELLESKLKTA LLDISCVKHIIYVDNKAINKAIEYPEGFEIHSMQSVEELGSNPENLGIPPSRPTPSDMAI VMYTSGSTGRPKGVMMHHSNLIAGMTGQCERIPGLGPKDITYIGYLPLAHVLELTAEI SCFTYGCRIGYSSPLTLSDQSSKIKKGSKGDCTVLKPTLMAAVPEIMDRIYKNVMSKV

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QEMNYIQKTLFKIGYDYKLEQIKKGYDAPLCNLLLFKKVKALLGGNVRMMLSGGAPL
 SPQTHRFMNVCFCCPIGQGYGLTESCGAGTVTEVTDYTTGRVGAPLICCEIKLKD
 WQEGGYTINDKPNPRGEIVIGGQNISMGYFKNEEKTAEDYSVDENGQRWFCTGDIGE
 FHPDGCLQIIDRKKDLVKLQAGEYVSLGKVEAALKNCPLIDNICAFKSDQSYVISFVV
 PNQKRLTLAQKQGVETWVDICNNPAMEAEILKEIREAANAMKLERFEIPIKVRLSP
 EPWTPETGLVTDAFKLKRKELRNHYLKDIERYGGK

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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

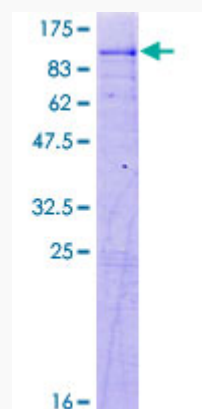
ACSL4; acyl-CoA synthetase long-chain family member 4; FACL4, fatty acid Coenzyme A ligase, long chain 4 , mental retardation, X linked 63 , mental retardation, X linked 68 , MRX63, MRX68; long-chain-fatty-acid--CoA ligase 4; long chain fatty acid Coenzyme A ligase 4; ACS4; LACS4; lignoceroyl CoA synthase;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

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Gene ID	2182
mRNA Refseq	NM_004458
Protein Refseq	NP_004449
MIM	300157
UniProt ID	O60488



12.5% SDS-PAGE Stained with Coomassie Blue.