

Recombinant Human ACSL3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACSL3-796H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACSL3 MS Standard C13 and N15-labeled recombinant protein (NP_004448) 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 is highly expressed in brain, and preferentially utilizes myristate, arachidonate, and eicosapentaenoate as substrates. The amino acid sequence of this isozyme is 92% identical to that of rat homolog. Two transcript variants encoding the same protein have been found for this gene.
Molecular Mass	80.4 kDa
AA Sequence	MNNHVSSKPMKLTHTINPILLYFIHFLISLYTILTYIPFYFFSESQRQEKSNRIKAKPVN SKPDSAYRSVNSLDGLASVLYPGCDTLDKVFTYAKNFKNKRLGTREVLNEEDE QPNGKIFKKVILGQYNWLSYEDVFVRAFNFNGNLQMLGQKPKTNIAIFCETRAEWMI AAQACFMYNFQLVTLYATLGGPAIVHALNETEVTNIITSKELLQTKLKDIVSLVPRLRHI ITVDGKPPTWSEFPKGIIVHTMAAVEALGAKASMENQPHSKPLPSDIIVIMYTSGSTG

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LPKGVMIHSNIIAGITGMAERIPELGEEDVYIGYLPLAHVLELSAELVCLSHGCRIGYS
 SPQTLADQSSIKKKGSKGDTSMKPTLMAAVPEIMDRIYKNVMNKVSEMSSSFQRNLF
 ILAYNYKMEQISKGRNTPLCDSFVFRKVRSLGGINIRLLCGGAPLSATTQRFMNICF
 CCPVGQGYGLTESAGAGTISEVWDYNTGRVGAPLVCCEIKLKNWEEGGYFNTDKP
 HPRGEILIGGQSVTMGYKNEAKTKADFFEDENGQRWLCTGDIGEFEPDGCLKIIDR
 KKDLVKLQAGEYVSLGKVEAALKNLPLVDNICAYANSYHSYVIGFVVPNQKELTELAR
 KKGLKGTWEELCNSCEMENEVLKVLSEAAISASLEKFEIPVKIRLSPEPWTPETGLVT
 DAFKLKRKELKTHYQADIERMYGRKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 [ACSL3 acyl-CoA synthetase long-chain family member 3 \[Homo sapiens \(human\) \]](#)

Official Symbol [ACSL3](#)

Synonyms ACSL3; acyl-CoA synthetase long-chain family member 3; FACL3, fatty acid Coenzyme A ligase, long chain 3; long-chain-fatty-acid--CoA ligase 3; ACS3; PRO2194; LACS 3; lignoceroyl-CoA synthase; long-chain acyl-CoA synthetase 3; fatty-acid-Coenzyme A ligase, long-chain 3; FACL3;

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Gene ID	2181
mRNA Refseq	NM_004457
Protein Refseq	NP_004448
MIM	602371
UniProt ID	O95573
SDS-PAGE	