

Product datasheet for PH308032

ACSL3 (NM_004457) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ACSL3 MS Standard C13 and N15-labeled recombinant protein (NP_004448)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208032
Predicted MW:	80.4 kDa
Protein Sequence:	>RC208032 protein sequence Red=Cloning site Green=Tags(s)

MNNHVSSKPSTMKLKHTINPILLYFIHFLISLYTILTYIPFYFFSESREQESNRKAKPVNSKPD SAYRS
VNSLDGLASVLYPGCDTLDKVFTYAKNFKNRLLGTREVLNEEDEVQPNGKIFKKVILGQYNWLSYEDV
FVRAFNFNGLQMLGQPKTNIAIFCETRAEWIAAQACFMYNFQLVTLYATLGGPAIVHALNETEVTNI
ITSKELLQTKLKDIVSLVPLRHHIITVDGKPTWSEFPKGIIVHTMAAVEALGAKASMENQPHSKPLPSD
IAVIMYTSGSTGLPKGVMISHSNIAGITGMAERIPELGEEDVYIGYLP LAHVLELSAELVCLSHGCRIG
YSSPQTLADQSSIKKGSKGDTSMLKPTLMAAVPEIMDRIYKNVMNKVSEMSFQRNLFILAYNYKMEQI
SKGRNTPLCDSFVFRKVRSLGGINIRLLLGGAPLSATTQRFMNICFCPPVGGYGLTESAGAGTISEVW
DYNTGRVGAPLVCCEIKLKNWEEGGYFNTDKPHPRGEILIGGQSVTMGYKNEAKTKADFFEDENGQRWL
CTGDIGFEFDGCLKIIDRKKDLVKLQAGEYVSLGKVEAALKNLPLVDNICAYANSYHSYVIGFVVPNQK
ELTELARKKGLKGTWEELCNSEMENEVLKVLSEAAISASLEKFEIPVKIRLSPEWTPETGLVTDFAFKL
KRKELKTHYQADIERYGRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004448



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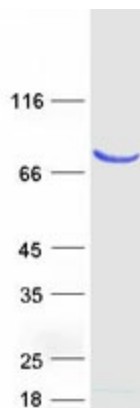
RefSeq Size:	4369
RefSeq ORF:	2160
Synonyms:	ACS3; FACL3; LACS 3; LACS3; PRO2194
Locus ID:	2181
UniProt ID:	O95573 , A0A024R487
Cytogenetics:	2q36.1

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway

Product images:



Coomassie blue staining of purified ACSL3 protein (Cat# [TP308032]). The protein was produced from HEK293T cells transfected with ACSL3 cDNA clone (Cat# [RC208032]) using MegaTran 2.0 (Cat# [TT210002]).