

Human ACSL4 Knockdown Cell Lysate

Cat. No. ACSL4-023HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ACSL4 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	79 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.

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Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg ACSL4 KD HeLa cell lysate
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
Lysate QC	RT-qPCR; Western Blotting (WB)
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; FAACL4, 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; FAACL4; MRX63; MRX68;
Gene ID	2182
mRNA Refseq	NM_004458

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Protein Refseq	NP_004449
MIM	300157
UniProt ID	O60488

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