

Recombinant Human ACSL5 Protein (33-683 aa), His-tagged

Cat. No. ACSL5-1924H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACSL5 Protein (33-683 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	33-683 aa
Description	Acyl-CoA synthetases (ACSL) activate long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. ACSL5 may activate fatty acids from exogenous sources for the synthesis of triacylglycerol destined for intracellular storage (By similarity). Utilizes a wide range of saturated fatty acids with a preference for C16-C18 unsaturated fatty acids (By similarity). It was suggested that it may also stimulate fatty acid oxidation (By similarity). At the villus tip of the crypt-villus axis of the small intestine may sensitize epithelial cells to apoptosis specifically triggered by the death ligand TRAIL. May have a role in the survival of glioma cells.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	76.4 kDa
AA Sequence	TRPQPVLPLLDLNNQSVGIEGGARKGVSQKNNDLTSCCFSDAKTMYEVFQRGLAVS DNGPCLGYRKPNQPYRWLSYKQVSDRAEYLGSCLLHKGYSKSSPDQFVGIFAQNRP

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EWIISELACYTYSMVAVPLYDTLGPEAIVHIVNKADIAMVICDTPQKALVLIGNVEKGFT
 PSLKVIIIMDPFDDDLKQRGEKSGIEILSLYDAENLGKEHFRKPVPPSPEDLSVICFTS
 GTTGDPKGAMITHQNIVSNAAFLKCVEHAYEPTPDDVAISYLPLAHMFERIVQAVVY
 SCGARVGFFQGDIRLLADDMKTLKPTLFPAPVPRLLNRIYDKVQNEAKTPLKKFLLKLA
 VSSKFELQKGIIRHDSFWDKLIFAKIQDSLGRVVRVIVTGAAPMSTSVMTFFRAAMG
 CQVYEAYGQTECTGGCTFTLPGDWTSGHVGVPACNYVKLEDVADMNYFTVNNEG
 EVCIKGTNVFKGYLKDPEKTQEALDSDGWLHTGDIGRWLPNGTLKIIDRKKNIFKLAQ
 GEYIAPEKIENIYNRSQPVLQIFVHGESLRSSLVGVVVPDTPDVLPSFAAKLGVKGSFE
 ELCQNQVVREAILEDLQKIGKESGLKTFEQVKAIFLHPEPFSIENGLLTPTLKAARGEL
 SKYFRTQIDSLYEHIQD

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name [ACSL5 acyl-CoA synthetase long-chain family member 5 \[Homo sapiens \]](#)

Official Symbol [ACSL5](#)

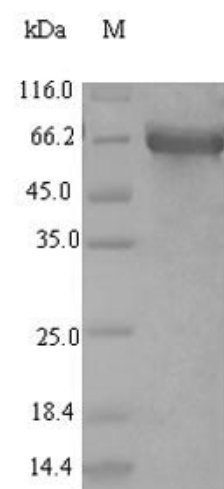
Synonyms ACSL5; ACS2; ACS5; LACS 5; FACL5;

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Gene ID	51703
mRNA Refseq	NM_016234
Protein Refseq	NP_057318
MIM	605677
UniProt ID	Q9ULC5



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.