



Recombinant Human ACSL1 Protein Product Manual

1. Product Basic Information

Product No.: REP06029

Protein Name: Lignoceroyl-CoA Synthase (ACSL1)

Aliases: ACS1; LACS; FACL1; FACL2; LACS1; LACS2; lignoceroyl-CoA synthase

UniProt ID: P33121

UniProt Link: <https://www.uniprot.org/uniprotkb/P33121/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Partial (46-698aa)

Molecular Weight: 79.5 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (46-698aa)

TRPKPLKPPCDLSMQSVEVAGSGGARRSALLDSDEPLVYFYDDVTTLYEGFQRGIQ
VSNNGPCLGSRKPDQPYEWLSYKQVAELSECIGSALIQKGFKTAPDQFIGIFAQNRP
EWWIEQGCFAYSMVIVPLYDTLGNEAITIVNKAELSLVFVDKPEKALLLEGVENKL
IPGLKIIVMDAYGSELVERGQRCGVEVTSMKAMEDLGRANRRKPKPPAPEDLAVIC
FTSGTTGNPKGAMVTHRNIVSDCSAFVKATENTVNPCPDDTLISFLPLAHMFERVVE
CVMLCHGAKIGFFQGDIRLLMDDLKVLQPTVFPVVPRLNRMFDRIFGQANTTLKR
WLLDFASKRKEAELRSGIIRNNSLWDRILIFHKVQSSLGGRVRLMVTGAAPVSATVLT
FLRAALGCQFYEGYGQTECTAGCCLTMPGDWTAGHVGAPMPCNLIKLVDVEEMN
YMAAEGEGEVCVKGPNVFQGYLKDPAKTAEALDKDGLHTGDIGKWLPNGTLKIID
RKKHIFKLAQGEYIAPEKIENTIYMRSEPVAQVFVHGESLQAFLIAIVPDVETLCSWA
QKRGFEFSFEELCRNKDVKKAILEDMVRLGKDSGLKPFEQVKGITLHPELFSIDNGL
LTPTMKAKRPELRNYFRSQIDDLYSTIKV

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).



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Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human ACSL1 partial protein (46-698aa) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. ACSL1, also known as ACS1 or LACS or FACL1, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.