

ACSL4 Protein, Mouse, Recombinant (His)

General Information

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| Synonyms: | Acsl4;Arachidonate--CoA ligase;Facl4;Long-chain-fatty-acid--CoA ligase 4;Long-chain acyl-CoA synthetase 4 (LACS 4;mACS4);Acs4 |
| Protein Construction: | 100-581 aa |
| Species: | Mouse |
| Expression Host: | E. coli |
| Accession: | Q9QUJ7 |
| Molecular Weight: | 59.3 kDa (predicted) |
| AA Sequence: | EILSEENEMQPNGKVFKKLILGNYKWINYLEVNCRVNNFGSGLTALGLPKNTIAIFCETRAEWMIAAQTCFKY NFPLVTLTYATLGREAVVHGLNESEASYLITSVELLESKLAALVDINCVKHIIYVDNKTINRAEYPEGLEIHSMQS VEELGAKPENLSVPPSRPTPSDMAIVMYTSGSTGRPKGVMHHSNLIAGMTGQCERIPGLGPKDTYIGYLPLA HVLELTAEISCFTYGCRIGYSSPLTSDQSSKIKKGSKGDCTVLKPTLMAAVPEIMDRIYKNVMSKVQEMNYVQ KTLFKIGYDYKLEQIKKGYDAPLCNLILFKKVKALLGGNVRMMLSGGAPLSPQTHRFMNVCFCCPIGQGYGLTE SCGAGTVTEVTDYTTGRVGAPLICCEIKLKDWEQGGYTVHDKPNRGEIVIGGQNISMGYFKNEEKTAEDYCV DENGQRWFCTGDIGEFHPDGCLQIIDRKKDLVKLQAGE |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 85% as determined by SDS-PAGE. |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes the conversion of long-chain fatty acids to their active form acyl-CoA for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially activates arachidonate and eicosapentaenoate as substrates. Preferentially activates 8,9-EET > 14,15-EET > 5,6-EET > 11,12-EET. Modulates glucose-stimulated insulin secretion by regulating the levels of unesterified EETs. Modulates prostaglandin E2 secretion.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481