



Recombinant Rat Long-chain-fatty-acid--CoA ligase 4 (Acsl4)

Product Code	CSB-EP001193RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O35547
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	MAKRIKAKPT SDKPGSPYRS VTHFDSLAVI DIPGADTLDK LFDHAVAKFG KKDSLGTREI LSEENEMQPN GKVFKKLILG NYKWINYLEV NCRVNNFGSG LTALGLKPKN TIAFCETRA EWMIAAQTCF KYNFPLVTLY ATLGKEAVVH GLNESEASYL ITSVELLESK LKAALLDINC VKHIIYVDNK TINRAEYPEG LEIHSMQSVE ELGSKPENSS IPPSRPTPSD MAIVMYTSGS TGRPKGVMMH HSNLIAGMTG QCERIPGLGP KDTYIGYLPL AHVLELTAEI SCFTYGCRIG YSSPLTSDQ SSIKKKSGK DCTVLKPTLM AAVPEIMDRI YKNVMSKVQE MNYIQKTLFK IGYDYKLEQI KKGYPAPLCN LILFKVKAL LGGNVRMMLS GGAPLSPQTH RFMNVCFCCP IGQGYGLTES CGAGTVTEVT DYTTRGVGAP LICCEIKLKD WQEGGYTVHD KPNPRGEIVI GGQNISMGYF KNEEKTAEDY SVDENGQRWF CTGDIGEFHP DGCLQIIDRK KDLVKLQAGE YVSLGKVEAA LKNCLIDNI CAFAKSDQSY VISFVVPNQK KLTLAQQKG VEGSWVDICN NPAMEAEILK EIREAANAMK LERFEIPIKV RLSPEPWTPE TGLVTDAFKL KRKELKNHYL KDIERYGGK
Source	E.coli
Target Names	Acsl4
Protein Names	Recommended name: Long-chain-fatty-acid--CoA ligase 4 EC= 6.2.1.3 Alternative name(s): Long-chain acyl-CoA synthetase 4 Short name= LACS 4
Expression Region	1-670
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This protein 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 mental retardation or Alport syndrome. Alternative splicing of this gene generates 2 transcript variants.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.