# Datasheet

## Human ACSL4 Recombinant Protein

**Catalog Number:** BGT-PPT-18068

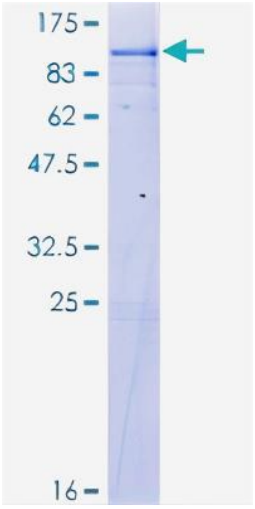
**Regulation Status:** For research use only (RUO)

**Product Description:** Human ACSL4 full-length ORF ( NP_004449.1, 1 a.a. - 670 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**
MAKRIKAKPTSDKPGSPYRSVTHFDSLAVIDIPGADTL
DKLFDHAVSKFGKKDSLGTREILSEENEMQPNGKVFK
KLILGNYKWMNYLEVNRRVNNFGSGLTALGLKPKNTIA
IFCETRAEWMIAAQTCFKYNFPLVTLYATLGKEAVVHG
LNESEASYLITSVELLESKLKTALLDISCVKHIIYVDNKAI
NKAEYPEGFEIHSMQSVEELGSNPENLGIPPSRPTPSD
MAIVMYTSGSTGRPKGVMMHHSNLIAGMTGQCERIPG
LGPKDTYIGYLPLAHVLELTAEISCFTYGCRIGYSSPLTL
SDQSSKIKKGSKGDCTVLKPTLMAAVPEIMDRIYKNVM
SKVQEMNYIQKTLFKIGYDYKLEQIKKGYDAPLCNLLLF
KKVKALLGGNVRMMLSGGAPLSPQTHRFMNVCFCCPI
GQGYGLTESCGAGTVTEVTDYTTGRVGAPLICCEIKLK
DWQEGGYTINDKPNPRGEIVIGGQNISMGYFKNEEKT
AEDYSVDENGQRWFCTGDIGEFHPDGCLQIIDRKKDL
VKLQAGEYVSLGKVEAALKNCPLIDNICAFAKSDQSYVI
SFVVPNQKRLTLLAQQKGVEGTWVDICNNPAMEAEIL
KEIREAANAMKLERFEIPIKVRLSPEPWTPETGLVTDAF
KLKRKELRNHYLKDIERMYGGK

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 100.8




**Interspecies Antigen Sequence:** Mouse (97); Rat (97) Applications: AP, Array, ELISA, WB-Re

**Preparation Method:** in vitro wheat germ expression system

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 2182

**Gene Symbol:** ACSL4

**Gene Alias:** ACS4, FACL4, LACS4, MRX63, MRX68

**Gene Summary:** 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 mental retardation or Alport syndrome. Alternative splicing of this gene generates 2 transcript variants. [provided by RefSeq]