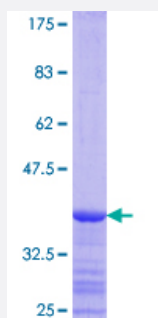


ACSL4 (Human) Recombinant Protein (Q01)

Catalog # H00002182-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ACSL4 partial ORF (NP_004449.1, 581 a.a. - 670 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	RLTLAQKKGVEGTWVDICNNPAMEAEILKEIREAANAMKLERFEIPIKVRLSPEPWTPETGLVTDA FKLKRKELRNHYLKDIERMYGGK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.64
Interspecies Antigen Sequence	Mouse (97); Rat (97)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
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.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ACSL4

Entrez GeneID [2182](#)

GeneBank Accession# [NM_004458](#)

Protein Accession# [NP_004449.1](#)

Gene Name ACSL4

Gene Alias ACS4, FACL4, LACS4, MRX63, MRX68

Gene Description acyl-CoA synthetase long-chain family member 4

Omim ID [300157](#) [300387](#)

Gene Ontology [Hyperlink](#)

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]

Other Designations OTTHUMP00000023846|acyl-CoA synthetase 4|fatty-acid-Coenzyme A ligase, long-chain 4|lignoceroyl-CoA synthase|long-chain fatty-acid-Coenzyme A ligase 4

Pathway

- [Adipocytokine signaling pathway](#)
- [Fatty acid metabolism](#)

- [Metabolic pathways](#)
- [PPAR signaling pathway](#)

Disease

- [Depressive Disorder](#)
- [Erythema](#)
- [Mental Retardation](#)
- [Metabolic Syndrome X](#)
- [Schizophrenia](#)