

ARG83836 Human ACSL4 / FACL4 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83836 Human ACSL4 / FACL4 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human ACSL4 / FACL4 in tissue homogenates, cell lysates and other biological fluids
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	ACSL4 / FACL4
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.052 ng/ml
Sample Type	Tissue homogenates, cell lysates and other biological fluids
Standard Range	0.16 - 10 ng/mL
Sample Volume	100 µl
Alternate Names	LACS4; Mental Retardation, X-Linked 68; ACS4; Acyl-CoA Synthetase 4; Fatty-Acid-Coenzyme A Ligase, Long-Chain 4; XLID63; Long-Chain Fatty-Acid-Coenzyme A Ligase 4; Long-Chain-Fatty-Acid--CoA Ligase 4; Long-Chain Acyl-CoA Synthetase 4; Lignoceroyl-CoA Synthase; Arachidonate--CoA Ligase; Long-Chain-Fatty-Acid--CoA Ligase; Mental Retardation, X-Linked 63; FACL4; MRX63; MRX68

Application Instructions

Assay Time	3.5 hours
------------	-----------

Properties

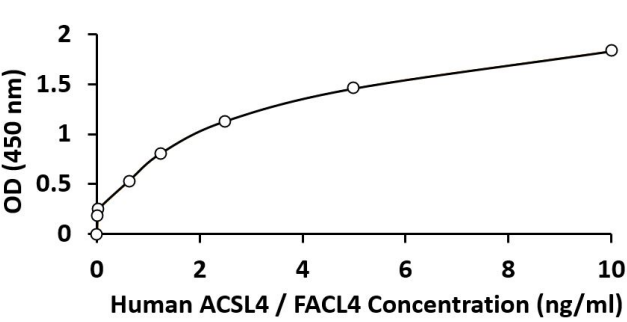
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ACSL4
Gene Full Name	Acyl-CoA synthetase long chain family member 4
Background	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 cognitive disability or Alport syndrome. Alternative splicing of this gene generates multiple transcript variants. [provided by RefSeq, Jan 2016]

Function	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. [UniProt]
PTM	Phosphoprotein. [UniProt]
Cellular Localization	Cell membrane; Endoplasmic reticulum; Membrane; Mitochondrion; Mitochondrion outer membrane. [UniProt]

Images



ARG83836 Human ACSL4 / FACL4 ELISA Kit standard curve image

ARG83836 Human ACSL4 / FACL4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.