

Recombinant Human ACSM2A Protein, GST-tagged

Cat. No. ACSM2A-205H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACSM2A full-length ORF (BAG53201.1, 1 a.a. - 577 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes a mitochondrial acyl-coenzyme A synthetase that is specific for medium chain fatty acids. These enzymes catalyze fatty acid activation, the first step of fatty acid metabolism, through the transfer of acyl-CoA. These enzymes also participate in the glycine conjugation pathway in the detoxification of xenobiotics such as benzoate and ibuprofen. Expression levels of this gene in the kidney may be correlated with kidney function. This gene and its paralog ACSM2B (Gene ID: 348158), both present on chromosome 16, likely arose from a chromosomal duplication event. [provided by RefSeq, May 2017]
Molecular Mass	89.87 kDa
AA Sequence	MHWLRKVQGLCTLWGTQMSSRTLYINSRQLVSLQWGHQEVPAKFNFASDVLDHW ADMEKAGKRLPSPALWWVNGKGKELMWNFRELSSENSQQAANVLSGACGLQRGD RVAVVLPRVPEWWLVILGCIRAGLIFMPGTIQMKSTDILYRLQMSKAKAIVAGDEVIQE VDTVASECPSLRILLVSEKSCDGWLNFKKLLNEASTTHHCVETGSQEASAIYFTSG TSGLPKMAEHSYSSLGLKAKMDAGWTGLQASDIMWTISDTGWILNILCSLMEPWAL GACTFVHLLPKFDPLVILKTLSSYPIKSMMGAPIVYRMLLQQDLSSYKFPHLQNCVTV

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GESLLPETLENWRAQTGLDIRESYGQTETGLTCMVSKTMKIKPGYMGTAASCYDVQ
IIDDKGNVLPPEGTEGDIGIRVKPIRPIGIFSGYVDNPDKTAANIRGDFWLLGDRGIKDE
DGYFQFMGRADDIINSSGYRIGPSEVENALMEHPAVVETAVISSPDPVRGEVVKAFV
VLASQFLSHDPEQLTKELQQHVKSVTAPYKYPRKIEFVLNLPKTVTGKIQRAKL RDKE
WKMSGKARAQ

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

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

GENE INFORMATION

Gene Name [ACSM2A acyl-CoA synthetase medium-chain family member 2A \[Homo sapiens \]](#)

Official Symbol [ACSM2A](#)

Synonyms ACSM2; A-923A4.1

Gene ID [123876](#)

mRNA Refseq [NM_001010845.2](#)

Protein Refseq [NP_001010845.1](#)

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MIM	614358
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UniProt ID	Q08AH3
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