

Recombinant Full Length Human ACSM2A Protein, GST-tagged

Cat. No. ACSM2A-808HF **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	In Vitro Cell Free System
ProteinLength	577 amino acids
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	MHWLRKVQGL CTLWGTQMSS RTLYINSRQL VSLQWGHQEV PAKFNFASDV LDHWADMEKA GKRLPSPALW WVNGKGKELM WNFRELSSENS QQAANVLSGA CGLQRGDRVA VVLPRVPEWW LVILGCIRAG LIFMPGTIQM KSTDILYRLQ MSKAKAIVAG DEVIQEVDTV ASECPSLRIK LLVSEKSCDG WLNFKKLLNE

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ASTTHHCVET GSQEASAIYF TSGTSGLPKM AEHSYSSLGL KAKMDAGWTG
 LQASDIMWTI SDTGWILNIL CSLMEPWALG ACTFVHLLPK FDPLVILKTL
 SSYPIKSMMG APIVYRMLLQ QDLSSYKFPK LQNCVTVGES LLPETLENWR
 AQTGLDIRES YGQTETGLTC MVSKTMKIKP GYMGTAAASY DVQIIDDKGN
 VLPPGTEGDI GIRVKPIRPI GIFSGYVDNP DKTAANIRGD FWLLGDRGIK
 DEDGYFQFMG RADDIINSSG YRIGPSEVEN ALMEHPAVVE TAVISSPDPV
 RGEVVKAFVV LASQFLSHDP EQLTKELQQH VKSVTAPYKY PRKIEFVLNL
 PKTVTGKIQR AKLRDKEWKM SGKARAQ

Applications

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

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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