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# **Recombinant human ACSF2 protein**

Catalog Number: ATGP3164

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

42-615aa

#### UniProt No.

096CM8

#### **NCBI Accession No.**

NP 079425

#### **Alternative Names**

Acyl-CoA synthetase family member 2 isoform 2, ACSMW, AVYV493

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

66.1 kDa (597aa)

#### Concentration

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

ACSF2 also known as Acyl-CoA synthetase family member 2. Acyl-CoA synthetases are a family of enzymes that catalyze the thioesterification of fatty acids with coenzymeA to form activated intermediates, which play a fundamental role in lipid metabolism and homeostasis of lipid-related processes. ACSF2 are required for complex lipid synthesis, energy production via beta-oxidation, protein acylation and fatty-acid dependent transcriptional regulation. ACSF2 are also necessary for fatty acid import into cells by the process of vectorial acylation, Recombinant human ACSF2, fused to His-tag at N-terminus, was expressed in E. coli and purified by using



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conventional chromatography techniques.

# **Amino acid Sequence**

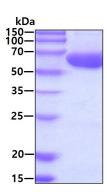
<MGSSHHHHHH SSGLVPRGSH MGS>LSSREVD RMVSTPIGGL SYVQGCTKKH LNSKTVGQCL ETTAQRVPER EALVVLHEDV RLTFAQLKEE VDKAASGLLS IGLCKGDRLG MWGPNSYAWV LMQLATAQAG IILVSVNPAY QAMELEYVLK KVGCKALVFP KQFKTQQYYN VLKQICPEVE NAQPGALKSQ RLPDLTTVIS VDAPLPGTLL LDEVVAAGST RQHLDQLQYN QQFLSCHDPI NIQFTSGTTG SPKGATLSHY NIVNNSNILG ERLKLHEKTP EQLRMILPNP LYHCLGSVAG TMMCLMYGAT LILASPIFNG KKALEAISRE RGTFLYGTPT MFVDILNQPD FSSYDISTMC GGVIAGSPAP PELIRAIINK INMKDLVVAY GTTENSPVTF AHFPEDTVEQ KAESVGRIMP HTEARIMNME AGTLAKLNTP GELCIRGYCV MLGYWGEPQK TEEAVDQDKW YWTGDVATMN EQGFCKIVGR SKDMIIRGGE NIYPAELEDF FHTHPKVQEV QVVGVKDDRM GEEICACIRL KDGEETTVEE IKAFCKGKIS HFKIPKYIVF VTNYPLTISG KIQKFKLREQ MERHLNL

#### **General References**

Black PN., et al.(2007) Biochim Biophys Acta. 1771(9):1246-53. Watkins P.A., et al. (2007) J Lipid Res. 48(12):2736-50.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

