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**Product Data Sheet**


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Product Name: ACSF2 Human

Cat. No.: GP21348

Batch No.: 1

**Product Data**

Purity &gt;98%

Source E.coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

Synonyms Acyl-CoA Synthetase Family Member 2; PPARG Binding; LongChain Fatty Acid Acyl Co-A Ligase Like; Acyl-CoA Synthetase Family Member 2; Mitochondrial; EC 6.2.1.26; EC 6.2.1.-; FLJ20920; EC 6.2.1; AVYV493; ACSMW; Acyl-CoA synthetase family member 2; mitochondrial.

Amino Acid Sequence  
 MGSSHHHHH SSGLVPRGSH MGSLSREVD RMVSTPIGGL SYVQGCTKKH  
 LNSKTVGQCL ETTAQRVPEREALVVLHEDV RLTFALKEE VDKAASGLLS  
 IGLCKGDRLG MWGPNSYAWV LMQLATAQAG IILVSVNPAYQAMELEYVLK  
 KVGCKALVFP KQFKTQQYYN VLKQICPEVE NAQPGALKSQ RLPDLTTVIS  
 VDAPLPGTLLLDEVVAAGST RQHLDQLQYN QQFLSCHDPI NIQFTSGTTG  
 SPKGATLSHY NIVNNSNILG ERLKLHEKTPEQLRMILPNP  
 LYHCLGVSAGTMMCLMYGAT LILASPIFNG KKALEAISRE RGTFLYGTPT  
 MFVDILNQPDFSSYDISTMC GGVIAGSPAP PELIRAIINK INMKDLVVAY  
 GTTENSPTVF AHFPEDTVEQ KAESVGRIMPHTEARIMNME AGTLAKLNTP  
 GELCIRGYCV MLGYWGEPQK TEEAVDQDKW YWTGDVATMN  
 EQGFCKIVGRSKDMIIRGGE NIYPAELEDF FHHPKVQEV QVVGKDDRM  
 GEEICACIRL KDGEETTVEE IKAFCKGKISHFKIPKYIVF VTNYPLTISG  
 KIQKFLREQ MERHLNL.

Formulation ACSF2 protein solution (0.5mg/ml) containing PhosphateBuffered Saline pH 7.4 and 10% glycerol.

**Introduction**

Acyl-CoA synthetase family member 2, also known as ACSF2 is a member of the ATP-dependent AMP-binding enzyme family. Acyl-CoA synthetases are a family of enzymes which catalyze the thioesterification of fatty acids with coenzyme A to form activated intermediates, which play a basic part in lipid metabolism as well as homeostasis of lipid-

**Caution: Product has not been fully validated for medical applications. For research use only.**

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related processes. ACSF2 is required for the complex of lipid synthesis, energy production via beta-oxidation, protein acylation and fatty-acid dependent transcriptional regulation. Moreover, ACSF2 is required for fatty acid import into cells by the process of vectorial acylation.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ACSF2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 597 amino acids (42-615 a.a) and having a molecular mass of 66.1kDa. ACSF2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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