

Recombinant human ACSF2 protein

Catalog Number: ATGP3164

PRODUCT INFORMATION

Expression system

E.coli

Domain

42-615aa

UniProt No.

Q96CM8

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 SSSLVPRGSH MGS>LSSREVD RMVSTPIGGL SYVQGCTKKH LNSKTVGQCL ETTAQRVPER
EALVVLHEDV RLTFALKEE VDKAASGLLS IGLCKGDR LG MWGPN SYAWV 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 AGTLAKLNTG GELCIRGYCV MLGYWGEPQK TEEAVDQDKW
YWTGDVATMN EQGFCKIVGR SKDMIIRGGE NIYPAELEDF FHHPKVQEV QVVGVKDDRM GEEICACIRL KDGEETTVEE
IKAFCKGKIS HFKIPKYIVF VTNYPLTISG KIQKFLREQ MERHLNL

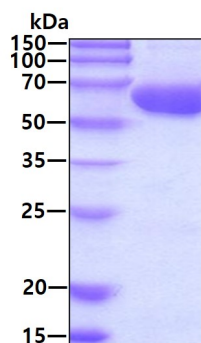
General References

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.