

# Recombinant human OXSM protein

Catalog Number: ATGP2347

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

28-459aa

### UniProt No.

Q9NWU1

### NCBI Accession No.

NP\_060367

### Alternative Names

3-oxoacyl-ACP synthase mitochondrial, 3-oxoacyl-ACP synthase, mitochondrial, FASN2D, KASI, KS

## PRODUCT SPECIFICATION

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### Molecular Weight

48.1 kDa (455aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% 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

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### Description

OXSM is a beta-ketoacyl synthetase. The enzyme is required for elongation of fatty acid chains in the mitochondria. Alternatively spliced transcript variants have been described. Recombinant human OXSM protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSKRKFFGT VPISRLHRRV VITGIGLVTP LGVGTHLVWD RLIGGESGIV SLVGEEYKSI

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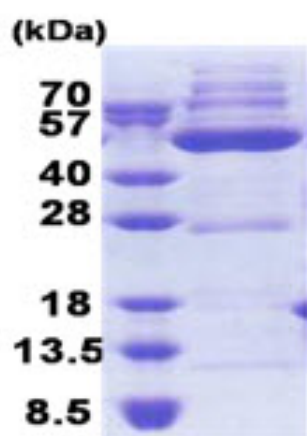
PCSVAAYVPR GSDEGQFNEQ NFVSKSDIKS MSSPTIMAIG AAELAMKDSG WHPQSEADQV ATGVAIGMG MIPLEVVSETA  
LNFQTKGYNK VSPFFVPKIL VNMAAGQVSI RYKLGPNHA VSTACTTGAH AVGDSFRFIA HGDADVMVAG GTDSCISPLS  
LAGFSRARAL STNSDPKLAC RPFHPKRDGF VMGEGAAVLV LEEYEHAVQR RARIYAEVLG YGLSGDAGHI TAPDPEGEA  
LRCMAAALKD AGVQPEEISY INAHATSTPL GDAAENKAIK HLFKDHAYAL AVSSTKGATG HLLGAAGAVE AAFRTLACY  
ZKLPTLNLND CSEPEFDLNY VPLKAQEWKT EKRFGLTNS FGFGGTNATL CIAGL

## General References

Zhang L., et al (2005). J. Biol. Chem. 280:12422-12429(2005)

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)