

## Recombinant Human OXSM protein, His-tagged

Cat. No. OXSM-2347H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human OXSM(28-459aa) fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	28-459 a.a.
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
<b>Molecular Mass</b>	48.1 kDa (455aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSKRKFFGT VPISRLHRRV VITGIGLVTP LGVGTHLVWD RLIGGESGIV SLVGEEYKSI PCSVAAYVPRGSDEGQFNEQ NFVSKSDIKS MSSPTIMAIG AAELAMKDSG WHPQSEADQV ATGVAIGMGM IPLVVSETA LNFQTKGYNK VSPFFVPKILVNMAAGQVSI RYKLGPNHA VSTACTTGAH AVGDSFRFIA HGDADVMVAG GTDSCISPLS LAGFSRARAL STNSDPKLAC RPFHPKRDGFVMGEGAALV LEEYEHAVQR RARIYAEVLG YGLSGDAGHI TAPDPEGEA LRCMAAALKD AGVQPEEISY INAHATSTPL

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GDA AENKAIKHLFKDHAYAL AVSSTKGATG HLLGAAGAVE AAF TTLACY Y  
 QKL PPTLNLD CSEPEFDLNY VPLKAQEWKT EKRF IGLTNS FGFGGTNATLCIAGL

**Purity** > 90% by SDS - PAGE

**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** OXSM 3-oxoacyl-ACP synthase, mitochondrial [ Homo sapiens ]

**Official Symbol** OXSM

**Synonyms** KS; KASI; FASN2D

**Gene ID** 54995

**mRNA Refseq** NM\_017897.2

**Protein Refseq** NP\_060367

**MIM** 610324

**UniProt ID** Q9NWU1

**Chromosome Location** 3p24.2

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**Pathway**

Fatty acid biosynthesis, organism-specific biosystem;Fatty acid biosynthesis, conserved biosystem;Fatty acid biosynthesis, elongation, organism-specific biosystem;Fatty acid biosynthesis, elongation, conserved biosystem;fatty acid biosynthesis initiation II, organism-specific biosystem;palmitate biosynthesis I (animals), organism-specific biosystem;

**Function**

3-oxoacyl-[acyl-carrier-protein] synthase activity;

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