

Recombinant Human OXSM protein, His-tagged

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

SPECIFICATION

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

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GDAAENKAIKHLFKDHAYAL AVSSTKGATG HLLGAAGAVE AAF TTLACY Y
QKL PPTL NLD CSEPEFDLNY VPLKAQEWKT EKRFIGLTNS 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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