

Recombinant Human sperm mitochondria-associated cysteine-rich protein, His-tagged

Cat. No. SMCP-271H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SMCP, 1-116aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-116 a.a.
Description	Sperm mitochondria differ in morphology and subcellular localization from those of somatic cells. They are elongated, flattened, and arranged circumferentially to form a helical coiled sheath in the midpiece of the sperm flagellum. SMCP localizes to the capsule associated with the mitochondrial outer membranes and is thought to function in the organization and stabilization of the helical structure of the sperm's mitochondrial sheath. Recombinant human SMCP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM EDTA, 0.1mM PMSF
Molecular Mass	15.2 kDa (139aa)(Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMCDQTKH SKCCPAKGNQ CCPPQQNQCC QSKGNQCCPP KQNQCCQPKG SQCCPPKHNH CCQPKPPCCI QARCCGLETK

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PEVSPLNMES EPNSPQTQDK GCQTQQPHS PQNESRPSK

Purity >85% by SDS - PAGE

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

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [SMCP sperm mitochondria-associated cysteine-rich protein \[Homo sapiens \]](#)

Official Symbol SMCP

Synonyms SMCP; sperm mitochondria-associated cysteine-rich protein; MCSP, mitochondrial capsule selenoprotein; sperm mitochondrial-associated cysteine-rich protein; mitochondrial capsule selenoprotein; MCS; MCSP; HSMCSGEN1; MGC26305; MGC26519;

Gene ID [4184](#)

mRNA Refseq [NM_030663](#)

Protein Refseq [NP_109588](#)

MIM [601148](#)

UniProt ID [P49901](#)

Chromosome Location 1q21.3

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Function	molecular_function;
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