

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

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

### SPECIFICATION

<b>Product Overview</b>	SMCP, 1-116aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-116 a.a.
<b>Description</b>	<p>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.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM EDTA, 0.1mM PMSF
<b>Molecular Mass</b>	15.2 kDa (139aa)(Molecular size on SDS-PAGE will appear higher)
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MGSMCDQTKH SKCCPAKGNQ CCPPQQNQCC QSKGNQCCPP KQNQCCQPKG SQCCPPKHNH CCQPKPPCCI QARCCGLETK

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PEVSPLNMES EPNSPQTQDK GCQTQQQPHS 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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