

AR51178PU-N

Human SMCP (1-116, His-tag) - Purified

Alternate names:

MCS, MCSP, Sperm mitochondrial-associated cysteine-rich protein

Quantity:

0.25 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P49901](#)

NCBI:

[NP_109588](#)

GeneID:

[4184](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM EDTA, 0.1mM PMSF

Description:

Recombinant human SMCP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSMCDQTKH SKCCPAKGNQ CQPPQQNQCC QSKGNQCCPP
KQNQCCQPKG SQCCPPKHNH CCQPKPPCCI QARCCGLETK PEVSPLNMES EPNSPQTQDK
GCQTQQPHS PQNESRPSK

Molecular weight: 15.2 kDa (139aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Aho H., et al. (1996) Genomics. 32:184-190 Hawthorne S.K., et al. (2006) Genomics. 87:382-391

Pictures:

