

SMCP, 1-116aa, Human, His tag, E.coli

Cat.NO.: TP03969

3th Edition

Synonyms:Sperm mitochondria-associated cysteine-rich protein, HSMCSGEN1, MCS, MCSP

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 Weight:15.2 kDa (139aa) (Molecular size on SDS-PAGE will appear higher)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMCDQTKHSKCCPAKGNQCCPPQQNQCCQSKGNQCCPPKQNQCCQPKGS
QCCPPKHNHCCQPKPPCCIARCCGLETKPEVSPLNMESEPNPQTQDKGCQTQQQPHSPQNESRPSK

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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