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32-4869: Recombinant Human Sperm Mitochondria-Associated Cysteine-Rich Protein

Alternative Name : Sperm Mitochondria-Associated Cysteine-Rich Protein,MCSP,MCS,Mitochondrial Capsule Selenoprotein,HSMCSGEN1,Sperm Mitochondrial-Associated Cysteine-Rich Protein.

Description

Source : Escherichia Coli. SMCP Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 139 amino acids (1-116 a.a) and having a molecular mass of 15.2kDa (Molecular size on SDS-PAGE will appear higher). SMCP is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. SMCP is a protein-coding gene. SMCP localizes to the capsule linked with the mitochondrial outer membranes and assumed to function in the organization and stabilization of the helical structure of the sperm's mitochondrial sheath. Sperm mitochondria vary in morphology and subcellular localization from those of somatic cells. They are elongated, flattened, and arranged circumferentially construct a helical coiled sheath in the midpiece of the sperm flagellum. Diseases associated with SMCP include middle ear disease, and hard palate cancer.

Product Info

Amount :	10 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	SMCP protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol, 1mM EDTA and 0.1mM PMSF.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMCDQTKH SKCCPAKGNQ CCPPQQNQCC QSKGNQCCPP KQNQCCQPKG SQCCPPKHNH CCQPKPPCCI QARCCGLETK PEVSPLNMES EPNSPQTQDK GCQTQQQPHS PQNESRPSK.

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