9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SMCP Human

Sperm Mitochondria-Associated Cysteine-Rich Protein Human Recombinant RCP2133

Product Overview

Name	SMCP Human

Description

Sperm Mitochondria-Associated Cysteine-Rich Protein Human Recombinant

Accession (Primary)	P49901

Synonyms

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

Introduction

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

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.

Stability

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.

Purity

Greater than 85.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS MCDQTKH SKCCPAKGNQ CCPPQQNQCC QSKGNQCCPP KQNQCCQPKG SQCCPPKHNH CCQPKPPCCI QARCCGLETK PEVSPLNMES EPNSPQTQDK GCQTQQQPHS PQNESRPSK.

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Precautions

SMCP Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P49901)