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SEMG1 Human

Semenogelin I Human Recombinant
RCP2024

Product Overview

Name	SEMG1 Human

Description

Semenogelin I Human Recombinant

Accession (Primary)	P04279

Synonyms

CT103, dJ172H20.2, SEMG, SGI, Semenogelin-1, Semenogelin I, SEMG1.

Introduction

SEMG1 is the predominant protein in semen. The secreted protein takes part in the formation of a gel matrix which encases ejaculated spermatozoa. The prostate-specific antigen (PSA) protease processes SEMG1 into smaller peptides, with each possibly having a separate function. The proteolysis process breaks down the gel matrix and allows the spermatozoa to shift more freely. 2 transcript variants encoding different isoforms have been found for SEMG1.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

The SEMG1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 0.5M NaCl, 10% glycerol, 250mM Imidazole, 0.1mM PMSF and 1mM DTT.

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% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS QKGGSKG RLPSEFSQFP HGQKGQHYSG QKGKQQTESK GSFSIQYTYH VDANDHDQSR KSQQYDLNAL HKTTKSQRHL GGSQQLLHNK QEGRDHDKSK GHFHRVVIHH KGGKAHRGTQ NPSQDQGNSP SGKGISSQYS NTEERLWVHG LSKEQTSVSG AQKGRKQGGS QSSYVLQTEE LVANKQQRET

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KNSHQNKGHY QNVVEVREEH SSKVQTSLCP AHQDKLQHGS KDIFSTQDEL LVYNKNQHQT KNLNQDQQHG RKANKISYQS SSTEERRLHY GENGVQKDVS QSSIYSQTEE KAQGKSQKQI TIPSQEQEHS QKANKISYQS SSTEERRLHY GENGVQKDVS QRSIYSQTEK LVAGKSQIQA PNPKQEPWHG ENAKGESGQS TNREQDLLSH EQKGRHQHGS HGGLDIVIIE QEDDSDRHLA QHLNNDRNPL FT.

Precautions

SEMG1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P04279)