
Product Data Sheet

Product Name: SEMG1 Human
 Cat. No.: GP24521
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CT103; dj172H20.2; SEMG; SGI; Semenogelin-1; Semenogelin I; SEMG1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSQKGGSKG RLPSEFSQFP HGQKGQHYSG QKQKQQTESK GSFSIQYTYH VDANDHDQSR KSQQYDLNAL HKTTKSQRHL GGSQQLLHNK QEGRDHDKSK GHFHRVVIHH KGGKAHRGTQ NPSQDQGNP SGKGISSQYS NTEERLWVHG LSKEQTSVSG AQKGRKQGG SSSYVLQTEE LVANKQQRET KNSHQKNGHY QNVVEVREEH SSKVQTSLCP AHQDKLQHGS KDIFSTQDEL LVYNKNQHQT KNLNQDQQHG RKANKISYQS SSTEERRLHY GENGVQKDVS QSSIYSQTEE KAQGKSQKQI TIPSQEQEHS QKANKISYQS SSTEERRLHY GENGVQKDVS QRSIYSQTEK LVAGKSQIQ A PNPKQEPWHG ENAKGESGQS TNREQDLLSH EQKGRHQHGS HGGLDIVIIE QEDDSRHLA QHLNDRNPL FT.		
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.		

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.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

SEMG1 Human Recombinant produced in E. coli is a single polypeptide chain containing 462 amino acids (24-462) and having a molecular mass of 52kDa. SEMG1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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