

## 32-4797: Recombinant Human Semenogelin I

**Alternative Name :** CT103,dj172H20.2,SEMG,SGI,Semenogelin-1,Semenogelin I,SEMG1.

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 85% as determined by SDS-PAGE.
<b>Content :</b>	The SEMG1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 20% glycerol and 1mM DTT.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SSSLVPRGSH MGSQKGGSKG RLPSEFSQFP HGQKGQHYSG QKGKQQTESK GSFSIQYTYH VDANDHDQSR KSQYDLNAL HKTTKSQRHL GGSQQLLHNK QEGRDHDKSK GHFHRVVIHH KGGKAHRGTQ NPSQDQGNP SGKGISSQYS NTEERLWVHG LSKEQTSVSG AQKGRKQGGG QSSYVLQTEE LVANKQQRET KNSHQNKGHY QNVVEVREEH SSKVQTSLCP AHQDKLQHGS KDIFSTQDEL LVYNKNQHQT KNLNQDQQHG RKANKISYQS SSTEERRLHY GENGVQKDVS QSSIYSQTEE KAQGKSQKQI TIPSQEQEHS QKANKISYQS SSTEERRLHY GENG VQKDVS QRSIYSQTEK LVAGKSQIQA PNPKEPWHG ENAKGESGQS TNREQDLLSH EQKGRHQHGS HGGLDIVIIE QEDDSRHLA QHLNDRNPL FT.

