

Recombinant Human SEMG1, His-tagged

Cat. No. SEMG1-7640H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SEMG1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	24-462aa
Description	SEMG1 is the predominant protein in semen. The secreted protein is involved in the formation of a gel matrix that encases ejaculated spermatozoa. The prostate-specific antigen (PSA) protease processes this protein into smaller peptides, with each possibly having a separate function. The proteolysis process breaks down the gel matrix and allows the spermatozoa to move more freely. Two transcript variants encoding different isoforms have been found for this gene.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT.
Molecular Mass	52kDa (462aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSQKGGSKG RLPSEFSQFP HGQKGQHYSG QKKGKQQTESK GSFSIQYTYH VDANDHDQSR KSQQYDLNAL HKTTKSQRHL GGSQQLLHNK QEGRDHDKSK GHFHRVVIHH KGGKAHRGTQ NPSQDQGNP SGKGISSQYS NTEERLWVHG LSKEQTSVSG AQKGRKQGGG QSSYVLQTEE

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LVANKQQRET KNSHQKNGHY QNVVEVREEH SSKVQTSACP AHQDKLQHGS
 KDIFSTQDEL LVYNKNQHQT KNLNQDQQHG RKANKISYQS SSTEERRLHY
 GENGVQKDVS QSSIYSQTEE KAQGKSQKQI TIPSQEQEHS QKANKISYQS
 SSTEERRLHY GENGVQKDVS QRSIYSQTEK LVAGKSQIQA PNPKQEPWHG
 ENAKGESGQS TNREQDLLSH EQKGRHQHGS HGGLDIVIIE QEDDSDRHLA
 QHLNNDNRNPL FT

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml

GENE INFORMATION

Gene Name SEMG1 semenogelin I [Homo sapiens]

Official Symbol SEMG1

Synonyms SEMG1; semenogelin I; SEMG; semenogelin-1; cancer/testis antigen 103; CT103; semen coagulating protein; SGI; dJ172H20.2; FLJ78262; MGC14719;

Gene ID 6406

mRNA Refseq NM_003007

Protein Refseq NP_002998

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MIM	182140
UniProt ID	P04279
Chromosome Location	20q12-q13.2
Pathway	Amyloids, organism-specific biosystem; Disease, organism-specific biosystem;
Function	structural molecule activity;

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