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 QKGKQQTESK GSFSIQYTYH VDANDHDQSR KSQQYDLNAL HKTTKSQRHL GGSQQLLHNK QEGRDHDKSK GHFHRVVIHH KGGKAHRGTQ NPSQDQGNSP SGKGISSQYS NTEERLWVHG LSKEQTSVSG AQKGRKQGGS QSSYVLQTEE

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	LVANKQQRET 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
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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