Recombinant Human SEMG1 Protein, His-tagged

Cat. No. SEMG1-221H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SEMG1, transcript variant 2, fused with His tag at C-terminal was expressed in HEK296 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is the predominant protein in semen. The encoded secreted protein is involved in the formation of a gel matrix that encases ejaculated spermatozoa. This preproprotein is proteolytically processed by the prostate-specific antigen (PSA) protease to generate multiple peptide products that exhibit distinct functions. One of these peptides, SgI-29, is an antimicrobial peptide with antibacterial activity. This proteolysis process also breaks down the gel matrix and allows the spermatozoa to move more freely. This gene and another similar semenogelin gene are present in a gene cluster on chromosome 20.
Form	Lyophilized from a 0.2 μM filtered solution of 20mM Hac-NaAc, 150mM NaCl, pH 4.5
Molecular Mass	43.8kD
AA Sequence	QKGGSKGRLPSEFSQFPHGQKGQHYSGQKGKQQTESKGSFSIQYTYHVDANDHD QSRKSQQYDLNALHKTTKSQRHLGGSQQLLHNKQEGRDHDKSKGHFHRVVIHHKG GKAHRGTQNPSQDQGNSPSGKGISSQYSNTEERLWVHGLSKEQTSVSGAQKGRK QGGSQSSYVLQTEELVANKQQRETKNSHQNKGHYQNVVEVREEHSSKVQTSLCPA HQDKLQHGSKDIFSTQDELLVYNKNQHQTKNLNQDQQHGRKANKISYQSSSTEERR

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	LHYGENGVQKDVSQRSIYSQTEKLVAGKSQIQAPNPKQEPWHGENAKGESGQSTN REQDLLSHEQKGRHQHGSHGGLDIVIIEQEDDSDRHLAQHLNNDQNPLFTVDHHHH HH
Endotoxin	Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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
MIM	182140
UniProt ID	P04279

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