

Recombinant Human SEMG1, His-tagged

Cat. No. SEMG1-7760H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Semenogelin1/SEMG1 is produced with our mammalian cells expression system in HEK293. The target protein is expressed with sequence (Gln24Thr402) of Human SEMG1 fused with a polyhistidine tag at the Cterminus.
Species	Human
Source	HEK293
Description	Semenogelin1 (SEMG1) is the predominant protein in semen; it is a secretory protein involved in the formation of a gel matrix entrapping the accessory gland secretions and ejaculated spermatozoa. The prostatespecific antigen (PSA) protease processes SEMG1 into smaller peptides, each possibly having a separate function. In the proteolysis process, Alphainhibin92 and alphainhibin31 are produced; they inhibit the secretion of pituitary folliclestimulating hormone. At the same time, it breaks down the gel matrix, allowing the spermatozoa to move more freely.
Form	Lyophilized from a 0.2 µM filtered solution of 20mM HacNaAc, 150mM NaCl, pH 4.5
AA Sequence	QKGGSKGRLP SEFSQFPHGQ KGQHYSGQKG KQQTESKGSF SIQYTYHVDA NDHDQSRKSQ QYDLNALHK TTKSQRHLGG SQQLLHNKQE GRDHDKSKGH FHRVVIHHKG GKAHRGTQNP S QDQGNPS GKGISSQYSN TEERLWVHGL SKEQTSVSGA QKGRKQGGSQ SSVVLQTEEL VA NKQQRET KNSHQKNGHY QNVVEVREEH SSKVQTSLCP AHQDKLQHGS KDIFSTQDEL LVY NKNQHQ TKNLNQDQQH

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Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Notes	For research use only.
Storage	Lyophilized protein should be stored at less than 20°C. though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C. for 2-7 days.Aliquots of reconstituted samples are stable at less than 20°C. for 3 months.
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
Chromosome Location	20q12-q13.2
Pathway	Amyloids, organism-specific biosystem; Disease, organism-specific biosystem;

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Function

structural molecule activity;

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