

## 32-7556: Recombinant Human Semenogelin-1/SEMG1 (C-6His)

**Gene :** SEMG1

**Gene ID :** 6406

**Uniprot ID :** P04279

### Description

Source: Human Cells.

MW :43.8kD.

Recombinant Human Semenogelin-1 is produced by our Mammalian expression system and the target gene encoding Gln24-Thr402 is expressed with a 6His tag at the C-terminus. Semenogelin-1 (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 prostate-specific antigen (PSA) protease processes SEMG1 into smaller peptides, each possibly having a separate function. In the proteolysis process, Alpha-inhibin-92 and alpha-inhibin-31 are produced; they inhibit the secretion of pituitary follicle-stimulating hormone. At the same time, it breaks down the gel matrix, allowing the spermatozoa to move more freely.

### Product Info

**Amount :** 10 µg / 50 µg

**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM Hac-NaAc, 150mM NaCl, pH 4.5.

**Storage condition :** Lyophilized protein should be stored at -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 -20°C for 3 months.

**Amino Acid :** QKGGSKGRLPSEFSQFPHGQKGQHYSGQKGKQQTESKGSFSIQYTYHVDANDHDQSRKSQQYDLNALHKTT  
KSQRHLGGSQQLLHNKQEGRDHDKSGHFHRVVIHHKGGKAHRTQNPQDQGNPSGKGISSQYSNTEER  
LWVHGLSKEQTSVSGAQKGRKQGGSSSYVLQTEELVANKQQRETKNSHQNKGHYQNVVEVREEHSSKVQT  
SLCPAHQDKLQHGSKDIFSTQDELLVYNKNQHQTKNLNQDQQHGRKANKISYQSSSTEERRLHYGENGVQKD  
VSQRSISQTEKLVAGKSIQAPNPKQEPWHGENAKGESGQSTNREQDLLSHEQGRHQHGSHGGLDIVIEQ  
EDDSRHLAQHLNNDQNPLFTVDHHHHHH

### Application Note

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 ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.