

**Product Name: Recombinant Human SEMG1 (C-6His)**  
**Catalog #: PHH1489**



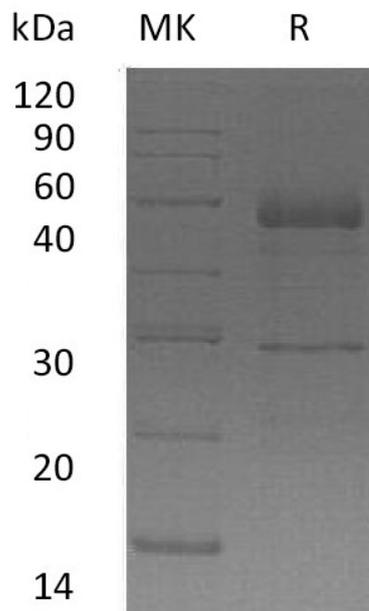
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## Summary

<b>Name</b>	Semenogelin-1/SEMG1
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	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.
<b>Accession #</b>	AAH07096.1
<b>Host</b>	Human Cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	43.8 KDa
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of 20mM Hac-NaAc, 150mM NaCl, pH 4.5.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SDS-PAGE image

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### **Alternative Names**

Semenogelin-1; Semenogelin I; SGI; SEMG1; SEMG; Alpha-Inhibin-92; Alpha-Inhibin-31; Seminal Basic Protein

### **Background**

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.

### **Note**

For Research Use Only , Not for Diagnostic Use.