

[Go to Product page](#)

Datasheet for ABIN1097499

**SEMG1 Protein (AA 24-402) (His tag)**

## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 50 µg  |
| Target:                       | SEMG1  |
| Protein Characteristics:      | AA 24-402                                    |
| Origin:                       | Human  |
| Source:                       | Human Cells                                  |
| Protein Type:                 | Recombinant                                  |
| Purification tag / Conjugate: | This SEMG1 protein is labelled with His tag. |

## Product Details

|                  |  |
|------------------|--|
| Purpose:         | Recombinant Human Semenogelin-1/SEMG1 (C-6His)   |
| Sequence:        | QKGGSKGRLP SEFSQFPHGQ KGQHYSGQKG KQTESKGSF SIQYTYHVDA NDHDQSRKSQ<br>QYDLNALHKT TKSQRHLGGS QQLLHNKQEG RDHDKSKGHF HRVVIHHKGG KAHRGTQNPS<br>QDQGNPSGK GISSQYSNTE ERLWVHGLSK EQTSVSGAQK GRKQGGSSQSS YVLQTEELVA<br>NKQQRETKNS HQNKGHYQNV VEVREEHSSK VQTSLCPAHQ DKLQHGSKDI FSTQDELLVY<br>NKNQHQTKNL NQDQQHGRKA NKISYQSSST EERRLHYGEN GVQKDVSQRS IYSQTEKLVA<br>GKSQIQAPNP KQEPWHGENA KGESGQSTNR EQDLLSHEQK GRHQHGSHGG LDIVIEQED<br>DSDRHLAQHL NNDQNPLFTV DHHHHHHH |
| Characteristics: | Recombinant Human Semenogelin-1/SEMG1 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Gln24-Thr402) of Human SEMG1 fused with a polyhistidine tag at the C-terminus.   |
| Purity:          | > 95 % as determined by reducing SDS-PAGE.   |

## Product Details

|                  |  |
|------------------|--|
| Sterility:       | 0.2 µm filtered  |
| Endotoxin Level: | Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | SEMG1  |
| Alternative Name: | semg1 ( <a href="#">SEMG1 Products</a> )   |
| Sub Type:         | Fusionprotein  |
| Background:       | <p>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.</p> <p>Alternative Names: Semenogelin-1, Semenogelin I, SGI, SEMG1, SEMG, Alpha-Inhibin-92, Alpha-Inhibin-31, Seminal Basic Protein</p> |
| Molecular Weight: | 43.8 kDa   |
| UniProt:          | <a href="#">P04279</a>   |

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|                  |  |
|------------------|--|
| Format:          | Lyophilized  |
| Reconstitution:  | <p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p> |
| Buffer:          | Lyophilized from a 0.2 µm filtered solution of 20 mM Hac-NaAc, 150 mM NaCl, pH 4.5.  |
| Handling Advice: | Always centrifuge tubes before opening. Do not mix by vortex or pipetting.   |
| Storage:         | 4 °C/-20 °C/-80 °C   |
| Storage Comment: | Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.  |

## Handling

---

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.

---

Expiry Date: 3 months