

Semenogelin-1 Protein, Human (HEK293, His)

Cat. No.:	HY-P71287
Synonyms:	Semenogelin-1; Semenogelin I; SGI; SEMG1; SEMG; Alpha-Inhibin-92; Alpha-Inhibin-31; Seminal Basic Protein
Species:	Human
Source:	HEK293
Accession:	AAH07096.1 (Q24-T402)
Gene ID:	6406
Molecular Weight:	29-54 kDa

PROPERTIES

AA Sequence	<p> Q K G G S K G R L P S E F S Q F P H G Q K G Q H Y S G Q K G K Q Q T E S K G S F S I Q Y T Y H V D A N D H D Q S R K S Q Q Y D L N A L H K T T K S Q R H L G G S Q Q L L H N K Q E G R D H D K S K G H F H R V V I H H K G G K A H R G T Q N P S Q D Q G N S P S G K G I S S Q Y S N T E E R L W V H G L S K E Q T S V S G A Q K G R K Q G G S Q S S Y V L Q T E E L V A N K Q Q R E T K N S H Q N K G H Y Q N V V E V R E E H S S K V Q T S L C P A H Q D K L Q H G S K D I F S T Q D E L L V Y N K N Q H Q T K N L N Q D Q Q H G R K A N K I S Y Q S S S T E E R R L H Y G E N G V Q K D V S Q R S I Y S Q T E K L V A G K S Q I Q A P N P K Q E P W H G E N A K G E S G Q S T N R E Q D L L S H E Q K G R H Q H G S H G G L D I V I I E Q E D D S D R H L A Q H L N N D Q N P L F T </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM HAC-NaAc, 150 mM NaCl, pH 4.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Semenogelin-1 is the main protein in semen and is involved in the formation of a gel matrix that encapsulates accessory glandular secretions and ejaculated sperm. Semenogelin-1 can be hydrolyzed by prostate-specific antigen (PSA) protease to
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produce a variety of peptide products with different functions. One of these peptides, Sgl-29, is an antimicrobial peptide with antimicrobial activity. The Semenogelin-1 hydrolysis process also breaks down the gel matrix, allowing the sperm to move more freely. Semenogelin-1 can be used as a predictor of cancer progression and prognosis^{[1][2][3][4]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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