

Kallikrein-3/PSA Protein, Human (244a.a, HEK293, His)

Cat. No.:	HY-P70266
Synonyms:	rHuProstate-specific antigen/KLK3, His; Prostate-Specific Antigen; PSA; Gamma-Seminoprotein; Semin; Kallikrein-3; P-30 Antigen; Semenogelase; KLK3; APS
Species:	Human
Source:	HEK293
Accession:	P07288 (A18-P261)
Gene ID:	354
Molecular Weight:	30-35 kDa

PROPERTIES

AA Sequence	<pre> A P L I L S R I V G G W E C E K H S Q P W Q V L V A S R G R A V C G G V L V H P Q W V L T A A H C I R N K S V I L L G R H S L F H P E D T G Q V F Q V S H S F P H P L Y D M S L L K N R F L R P G D D S S H D L M L L R L S E P A E L T D A V K V M D L P T Q E P A L G T T C Y A S G W G S I E P E E F L T P K K L Q C V D L H V I S N D V C A Q V H P Q K V T K F M L C A G R W T G G K S T C S G D S G G P L V C N G V L Q G I T S W G S E P C A L P E R P S L Y T K V V H Y R K W I K D T I V A N P </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM MES, 150 mM NaCl, 2 mM CaCl ₂ , pH 6.0 or 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
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	Kallikrein-3 (PSA) protein plays a pivotal role in the male reproductive system by hydrolyzing semenogelin-1, a seminal vesicle protein. This enzymatic activity is responsible for initiating the liquefaction of the seminal coagulum, a critical step in
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sperm mobility and overall fertility. PSA's ability to cleave semenogelin-1 underscores its significance in the intricate processes involved in semen physiology and male reproductive function.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA