

Kallikrein-3/PSA Protein, Human (237a.a, HEK293, His)

Cat. No.:	HY-P70606
Synonyms:	Prostate-specific antigen; PSA; Gamma-seminoprotein; Kallikrein-3; P-30 antigen; Semenogelase; KLK3; APS
Species:	Human
Source:	HEK293
Accession:	P07288(I25-P261)
Gene ID:	354
Molecular Weight:	Approximately 35.0 kDa

PROPERTIES

AA Sequence	<p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10 mM CaCl ₂ , 0.05% Brij 35, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

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 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.
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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