

# Recombinant Human PSA/KLK3 Protein (aa 25-261, His Tag)



Catalog Number:PKSH032949

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

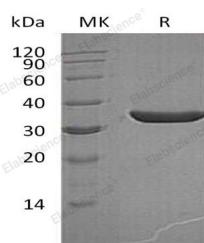
## Description

<b>Synonyms</b>	APS;Hk3;KLK2A1;PSA;Prostate-Specific Antigen;PSA;Gamma-Seminoprotein;Seminin;Kallikrein-3;P-30 Antigen;Semenogelase;
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ile25-Pro261
<b>Accession</b>	P07288
<b>Calculated Molecular Weight</b>	27.1 kDa
<b>Observed molecular weight</b>	35 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 $\mu$ m filtered solution of 50mM Tris-HCl, 10mM CaCl <sub>2</sub> , 150mM NaCl, 0.05% Brij 35, pH 7.5.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

KLK3; also known as APS; is short for Prostate-specific antigen. It is a 261 aa. protein which belongs to the peptidase S1 family and Kallikrein subfamily. This protein has 5 isoforms produced by alternative splicing. It is a secreted protein and can form a heterodimer with SERPINA5 which can inhibit its activity. KLK3 is also strongly inhibited by Zn<sup>2+</sup>; 100 times more abundant in semen than in serum. This inhibition is relieved by exposure to semenogelins; which are avid zinc binders. KLK3 can hydrolyze semenogelin-1 thus leading to the liquefaction of the seminal coagulum.

## For Research Use Only

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Toll-free: 1-888-852-8623

Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086

Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017