



# Recombinant Protein Technical Manual

## Recombinant Human PSA/KLK3 Protein (aa 18-261, His Tag)

RPES2950

### Product Data:

**Product SKU:** RPES2950

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P07288

### Protein Information:

**Molecular Mass:** 27.9 kDa

**AP Molecular Mass:** 35 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM MES, 150mM NaCl, 2mM CaCl<sub>2</sub>, pH 6.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** APS;Hk3;KLK2A1;PSA;Prostate-Specific Antigen; PSA; Gamma-Seminoprotein; Semin; Kallikrein-3; P-30 Antigen; Semenogelase;

## Immunogen Information:

**Sequence:** Ala18-Pro261

## Background:

Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many Kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen members of the Kallikrein subfamily located in a cluster on chromosome 19. Its encoded protein is secreted and may play a role in suppression of tumorigenesis in breast and prostate cancers. Alternate splicing of this gene results in multiple transcript variants encoding the same protein.