

## Recombinant Human Prostate-Specific Antigen/Kallikrein-3

### Information

|                     |  |
|---------------------|--|
| Gene ID             |  |
| Accession #         |  |
| Alternate Names     |  |
| Source              | Escherichia coli   |
| M.Wt                | Approximately 26.1 kDa, a single non-glycosylated polypeptide chain containing 237 amino acids.  |
| AA Sequence         | IVGGWECEKH SQPWQVLVAS RGRAVCGGVL VHPQWVLTAH HCIRNKSIVL LGRHSLFHPE DTGQVFQVSH SFPHPLYDMS LLKNRFLRPG DDSSHDLMLL RLSEPAELTDA VKVMDLPTQE PALGTTTCYAS GWGSIEPEEF LTPKKLQCVD LHVISNDVCA QVHPQKVTKF MLCAGRWTGG KSTCSGDSGG PLVCNGVLQG ITSWGSEPCA LPERPSLYTK VVHYRKWKID TIVANP  |
| Appearance          | Sterile Filtered White lyophilized (freeze-dried) powder.  |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70 °C as supplied.<br>1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>3 months, -20 to -70 °C under sterile conditions after reconstitution.   |
| Formulation         | Lyophilized from a 0.2 µm filtered concentrated solution in 20mM Tris-HCl, pH 8.0, 150mM NaCl, 3% trehalose.   |
| Reconstitution      | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions. |
| Biological Activity | Data not available   |
| Shipping Condition  | Gel pack.  |
| Handling            | Centrifuge the vial prior to opening.  |
| Usage               | For Research Use Only! Not to be used in humans.   |

### Components and Storage

| Components   | 5µg | 100µg | 500µg |
|--|-----|-------|-------|
| Recombinant Human Prostate-Specific Antigen/Kallikrein-3 | 5µg | 100µg | 500µg |

## Quality Control

|           |   |
|-----------|---|
| Purity    | > 95 % by SDS-PAGE and HPLC analyses.                                   |
| Endotoxin | Less than 0.1 EU/μg of rHuPSA/Kallikrein-3 as determined by LAL method. |

## Description

The human tissue kallikrein (KLK) gene family contains 15 members that play important roles in cancer. Kallikrein-3, called prostate specific antigen (PSA), is a glycoprotein enzyme encoded in humans by the KLK3 gene. PSA is secreted by the epithelial cells of the prostate gland, hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum. PSA is an established tumor marker that aids in the diagnosis, staging, and follow up of prostate cancer.

## Reference

**APExBIO Technology**

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