

**Recombinant Human Prostate-Specific
Antigen/Kallikrein-3
(rHuPSA/Kallikrein-3)
PrimeGene Technical Data Sheet**

Catalog Number:	401-21
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 26.1 kDa, a single non-glycosylated polypeptide chain containing 237 amino acids.
Quantity:	5µg/20µg/1000µg
AA Sequence:	IVGGWECEKH SQPWQVLVAS RGRAVCGGVL VHPQWVLTAH HCIRNKSVIL LGRHSLFHPE DTGQVFQVSH SFPHPLYDMS LLKNRFLRPG DDSSHDMLLL RLSEPAELTDA VKVMDLPTQE PALGTTTCYAS GWGSIEPEEF LTPKKLQCVD LHVISNDVCA QVHPQKVTKF MLCAGRWTGG KSTCSGDSGG PLVCNGVLQG ITSWGSEPCA LPERPSLYTK VVHYRKWIKD TIVANP
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Data not available.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20mM Tris-HCl, pH 8.0, 150mM NaCl, 3% trehalose.
Endotoxin:	Less than 0.1 EU/µg of rHuPSA/Kallikrein-3 as determined by LAL method.
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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Prostate-specific antigen/Human Kallikrein-3

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.