

# Recombinant Human Prostate-Specific Antigen/Kallikrein-3 (rHuPSA/Kallikrein-3)

## ChemWhat Technical Data Sheet (TDS)

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

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### *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.