

Native Human Prostate Specific Antigen (PSA), High pI Isoform (IEF)

Cat. No. KLK3-385H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Native Human Prostate Specific Antigen was purified from Human Seminal Fluid.

Species Human

Source Human Seminal Fluid

Description

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 kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms.

Form Clear and Colorless. Liquid in phosphate buffer, NaCl

Purity >96% (SDS-PAGE)

Storage 2-8 °C

Concentration >1.0 mg/mL (Radial Immunodiffusion)

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Preservative 0.09% Sodium Azide

GENE INFORMATION

Gene Name [KLK3 kallikrein-related peptidase 3 \[Homo sapiens \]](#)

Official Symbol KLK3

Synonyms KLK3; kallikrein-related peptidase 3; APS, kallikrein 3, (prostate specific antigen); prostate-specific antigen; PSA; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen; APS; hK3; KLK2A1;

Gene ID [354](#)

mRNA Refseq [NM_001030047](#)

Protein Refseq [NP_001025218](#)

MIM [176820](#)

UniProt ID [P07288](#)

Chromosome Location 19q13.41

Pathway Coregulation of Androgen receptor activity, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Prostate cancer, organism-specific biosystem; Prostate cancer, conserved biosystem;

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Function

peptidase activity; protein binding; serine-type endopeptidase activity; serine-type peptidase activity;

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