

PSA native protein

PSA Protein (Active)

CATALOG # AAA59066	HOST Human seminal fluid	APPLICATIONS ELISA
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PRODUCT SYNONYMS

PSA; PSA Protein (Active); Prostate specific antigen; gamma-seminoprotein; Semin; Kallikrein-3; P30 antigen; Semenogelase; KLK3; APS; PSA native protein

PRODUCT SPECIFICATIONS

Host	Human seminal fluid
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid; Each vial contains 0.01 M PBS, 0.15 M NaCl (pH 7.4) without preservative.
Concentration	1.38 mg/ml (varies by lot)
Applicable Applications for PSA native protein	ELISA
Preparation and Storage	Upon receipt, aliquot and store at -20 degree C or -80 degree C for long term. Avoid repeated freeze and thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PSA native protein	Background: Prostate-specific antigen (PSA), also known as gamma-seminoprotein or kallikrein-3 (KLK3), is a glycoprotein enzyme encoded in humans by the KLK3 gene. PSA is an androgen-regulated serine protease produced by both prostate epithelial cells and prostate cancer (PCa) and is the most commonly used serum marker for cancer. It is a member of the tissue kallikrein family, some of the members of which are also prostate specific. PSA is a major protein in semen, where its function is to cleave semenogelins in the seminal coagulum. PSA is secreted into prostatic ducts as an inactive 244-amino acid proenzyme (proPSA) that is activated by cleavage of seven N-terminal amino acids. Measurement of free versus total PSA can increase specificity for PCa. PSA is also widely used to monitor responses to therapy and is under investigation as a therapeutic target.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502173
NCBI GeneID	354
NCBI Accession #	NP_001639.1
NCBI GenBank Nucleotide #	NM_001648.2
UniProt Accession #	P07288 ; Q15096 ; Q16272 ; Q86TG8 ; Q8IXI4 ; C9JXH3 ; G3V0H4 ; G3XAE3
NCBI Official Full Name	prostate-specific antigen isoform 1 preproprotein
NCBI Official Synonym Full Names	kallikrein-related peptidase 3
NCBI Official Symbol	KLK3
NCBI Official Synonym Symbols	APS; PSA; hK3; KLK2A1
NCBI Protein Information	prostate-specific antigen; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen

UniProt Protein Name	Prostate-specific antigen
UniProt Gene Name	KLK3
UniProt Synonym Gene Names	APS; PSA; Seminol
UniProt Entry Name	KLK3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-seminal-fluid-native-protein/psa/59066>