

## KLK3

### Native Human Prostate Specific Antigen, Standard Grade

<b>Catalog No.</b>	CS075A CS075B	<b>Quantity:</b>	100 µg 1.0 mg
<b>Alternate Names:</b>	PSA, Kallikrein-3, Gamma-seminoprotein, Semin, P-30 antigen		
<b>Description:</b>	Prostate specific antigen is a serine protease which hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum. PSA is present in small quantities in the serum of men with healthy prostates, but is often elevated in the presence of prostate cancer or other prostate disorders. PSA is not a unique indicator of prostate cancer, but may also detect prostatitis or benign prostatic hyperplasia. The term prostate-specific antigen is a misnomer: it is an antigen but is not specific to the prostate. Although present in large amounts in prostatic tissue and semen, it has been detected in other body fluids and tissues, such as breast milk and amniotic fluid. PSA also is found in the serum of women with breast, lung, or uterine cancer and in some patients with renal cancer.		
<b>UniProt ID:</b>	P07288		
<b>Gene ID:</b>	354		
<b>Activity:</b>	≥ 0.5 mg/ml, determined by ELISA		
<b>Source:</b>	Human seminal fluid		
<b>Molecular Weight:</b>	34 kDa		
<b>Formulation:</b>	Lyophilized from 50mM Ammonium Bicarbonate		
<b>Purity:</b>	≥50% by SDS-PAGE		
<b>Reconstitution:</b>	Reconstitute using neutral pH buffer of choice. Avoid extreme high and low pH.		
<b>Storage &amp; Stability:</b>	2-8°C for short term storage. Store as supplied for up to 1 year at -20°C to -80°C. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze/thaw cycles.</b>		
<b>Certification:</b>	Serum from donors has been tested and found to be negative for HIV 1&2, HCV antibodies and Hepatitis B/C Surface Antigen by current FDA approved methods. However, because no test method can offer complete assurance that HIV, HBsAg, HCV or other infectious agents are absent, this material should be handled at the Bio-safety Level 2 (BSL 2) as recommended for any potentially infectious human serum or blood specimen in the CDC/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 1999.		

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