

## KLK3

### Native Human Prostate-Specific Antigen

<b>Catalog No.</b>	CSI14824A CSI14824B	<b>Quantity:</b>	100 µg 1 mg
<b>Alternate Names:</b>	Prostate-specific antigen, PSA, Gamma-seminoprotein (Seminin), Kallikrein-3, P-30 antigen, Semenogelase		
<b>Description:</b>	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. Kallikrein-related peptidase 3 (KLK3) 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 often referred to as Prostate Specific Antigen (PSA). 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.		
<b>UniProt ID:</b>	P07288		
<b>Gene ID:</b>	354		
<b>Source:</b>	Human semen		
<b>Molecular Weight:</b>	~30 kDa SDS-PAGE		
<b>Formulation:</b>	Sterile filtered 0.05 M sodium phosphate, 0.15 M NaCl, pH 7.5 containing 0.09% NaN <sub>3</sub>		
<b>Purity:</b>	≥ 96% by SDS-PAGE		
<b>Concentration:</b>	Typically >2.0 mg/ml, lot specific		
<b>Extinction Coefficient:</b>	$E^{0.1\%}_{280\text{nm}} = 1.7$		
<b>Recovery:</b>	<b>Centrifuge vial prior to withdrawing from container.</b>		
<b>Storage &amp; Stability:</b>	Store at 2-8°C. <b>DO NOT FREEZE.</b>		
<b>Certification:</b>	Non-Infectious Disease Certification: Non-reactive for HIV-1/HCV/HBV by NAT; HBsAg, HCV Ab, HIV-1&2 Ab and syphilis by currently approved FDA methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 1999.		

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