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Datasheet for ABIN7318944

Prostate Specific Antigen Protein (PSA) (AA 25-261) (His tag)

Overview

Quantity:	50 µg
Target:	Prostate Specific Antigen (PSA)
Protein Characteristics:	AA 25-261
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Prostate Specific Antigen protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PSA/KLK3 Protein (aa 25-261, His Tag)
Sequence:	Ile25-Pro261
Characteristics:	Recombinant Human Kallikrein-3/Prostate-specific antigen is produced by our Mammalian expression system and the target gene encoding Ile25-Pro261 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Prostate Specific Antigen (PSA)
Alternative Name:	PSA/KLK3 (PSA Products)

Target Details

Background:	<p>Background: KLK3, also known as APS, is short for Prostate-specific antigen. It is a 261 aa. protein which belongs to the peptidase S1 family and Kallikrein subfamily. This protein has 5 isoforms produced by alternative splicing. It is a secreted protein and can form a heterodimer with SERPINA5 which can inhibit its activity. KLK3 is also strongly inhibited by Zn²⁺, 100 times more abundant in semen than in serum. This inhibition is relieved by exposure to semenogelins, which are avid zinc binders. KLK3 can hydrolyze semenogelin-1 thus leading to the liquefaction of the seminal coagulum.</p> <p>Synonym: APS,Hk3,KLK2A1,PSA,Prostate-Specific Antigen, PSA, Gamma-Seminoprotein, Seminolin, Kallikrein-3, P-30 Antigen, Semenogelase,</p>
Molecular Weight:	27.1 kDa
UniProt:	P07288
Pathways:	Complement System

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 1 mM CaCl ₂ , pH 7.5.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.