

Datasheet for ABIN7596269

Prostate Specific Antigen Protein (PSA) (AA 18-261) (His tag)[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	Prostate Specific Antigen (PSA)
Protein Characteristics:	AA 18-261
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Prostate Specific Antigen protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	APLILSRIVG GWECEKHSQP WQVLVASRGR AVCGGVLVHP QWVLTAAHCI RNKSVILLGR HSLFHPEDTG QVFQVSHSFP HPLYDMSLLK NRFLRPGDDS SHDLMMLRLS EPAELTDAVK VMDLPTQEPA LGTTCYASGW GSIEPEEFLT PKKLQCVDLH VISNDVCAQV HPQKVTKFML CAGRWTGGKS TCSGDSGGPL VCNGVLQGIT SWGSEPCALP ERPSLYTKVV HYRKWIKDTI VANP
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 250pmol/min/ug, and is defined as the amount of enzyme cleaves 1pmole of Succinyl-Arg-Pro-Tyr-p-Nitroanilide to Succinyl-Arg-Pro-Tyr and p-Nitroanilide per minute at pH7.5 at 37C.

Target Details

Target:	Prostate Specific Antigen (PSA)
Alternative Name:	Kallikrein 3/PSA (PSA Products)
Background:	Kallikrein 3, as known as prostate specific antigen (PSA), is a subgroup of serine proteases, enzymes capable of cleaving peptide bonds in proteins. This protein is expressed in the prostate and is thought to be responsible for regulating semen liquefaction through hydrolysis of seminogelin. It 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. It is not a unique indicator of prostate cancer, but may also detect prostatitis or benign prostatic hyperplasia. Recombinant human Kallikrein 3 protein, fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.
Molecular Weight:	27.6 kDa (250aa)
NCBI Accession:	NP_001639
Pathways:	Complement System

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.