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Datasheet for ABIN7535810

Prostate Specific Antigen Protein (PSA) (His tag)

Overview

Quantity:	100 µg
Target:	Prostate Specific Antigen (PSA)
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.

Product Details

Purpose:	Active Recombinant Human PSA/KLK3 Protein
Sequence:	APLILSRIVG GWECEKHSQP WQVLVASRGR AVCGGVLVHP QWVLTAAHCI RNKSVILLGR HSLFHPEDTG QVFQVSHSFP HPLYDMSLLK NRFLRPGDDS SHDMLLRLS EPAELTDAVK VMDLPTQEPA LGTTCYASGW GSIEPEEFLT PPKLQCVDLH VISNDVCAQV HPQKVTKFML CAGRWTGGKS TCSGDSGGPL VCNGVLQGIT SWGSEPCALP ERPSLYTKVV HYRKWIKDTI VANP
Specificity:	Ala18-Pro261
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg
Biological Activity Comment:	Measured by its ability to cleave the colorimetric peptide substrate, Succinyl-Arg-Pro-Tyr-p-Nitroanilide (Suc-RPY-pNA). The specific activity is >160 pmol/min/µg, as measured under the described conditions.

Target Details

Target:	Prostate Specific Antigen (PSA)
Alternative Name:	PSA/KLK3 (PSA Products)
Background:	<p>Description: KLK3 (Kallikrein Related Peptidase 3) is a Protein Coding gene. The gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. It encodes a single-chain glycoprotein, a protease that is synthesized in the epithelial cells of the prostate gland and is present in seminal plasma. KLK3, also known as Prostate Specific Antigen (PSA), kallikrein-related peptidase 3, Gamma-seminoprotein, is a secreted protein of the glandular kallikrein subfamily of serine proteases. KLK3 contains one peptidase S1 domain. KLK3 is a glycoprotein produced almost exclusively by the prostate gland. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers.</p> <p>Name: APS, KLK2A1, PSA, hK3, KLK3, APS, prostate-specific antigen, KLK2A1, PSA, hK3</p>
Gene ID:	354
UniProt:	P07288
Pathways:	Complement System

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.