

EXB0011

## Native human Prostate-specific antigen / PSA Lyophilized (0.1 mg)

<b>Source:</b>	Prostate-specific antigen (PSA) was purified from human seminal plasma by ion-exchange chromatography and gel filtration. The purified antigen was dialyzed against d.H <sub>2</sub> O and lyophilized.
<b>Description:</b>	Prostate-specific antigen (PSA) is a glycoprotein of approx. 30 kDa found mainly in prostatic tissue and seminal fluid; it is produced by normal prostate cells. The molecule consists of approximately 92% protein and 8% carbohydrate. This enzyme participates in the dissolution of the seminal fluid coagulum and plays an important role in fertility. The highest amounts of PSA are found in the seminal fluid; some PSA escapes the prostate and can be found in the serum. This serum component has been used to track the response to therapy in men with prostate cancer.
<b>Regulatory Status:</b>	RUO
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Ion-exchange chromatography and gel filtration. The purified protein was dialyzed against deionized water and lyophilized.
<b>Activity:</b>	The purified protein is suitable as positive control material. No biological assay has been performed.
<b>Storage / Stability:</b>	Store lyophilized product in freezer (-20 °C to -80 °C). The expiration date of unopened product vial is indicated on the vial label. After reconstitution prepare suitable aliquots. Reconstituted product is stable for at least 6 months when stored in freezer (-20 °C to -80 °C). Avoid freeze/thaw cycles.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>References:</b>	*Zhang WM, Leinonen J, Kalkkinen N, Dowell B, Stenman UH: Purification and characterization of different molecular forms of prostate-specific antigen in human seminal fluid. Clin Chem. 1995 Nov;41(11):1567-73.

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