

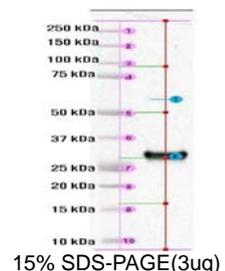
DATA SHEET

Product Information

Product Name	: Cytoplasmic Transduction Peptide-Recombinant Human Prostate Specific Antigen (CTP-rhPSA)
Synonyms	APS, Gamma-seminoprotein, KLK2A1, Kallikrein-3, P-30 antigen CTP (Cytoplasmic Transduction peptide) has not only excellent transcellular efficiency, but also a strong tendency to remain in the cytoplasm after transduction without migrating into the nucleus. When cells are treated with CTP-conjugated proteins, they immediately penetrate into cells.
Description	Prostate-specific antigen is a glycoprotein enzyme encoded in humans by the KLK3 gene. PSA is a member of the kallikrein-related peptidase family and is secreted by the epithelial cells of the prostate gland. PSA is produced for the ejaculate, where it liquefies semen in the seminal coagulum and allows sperm to swim freely. It is also believed to be instrumental in dissolving cervical mucus, allowing the entry of sperm into the uterus. PSA 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. The United States Preventive Services Task Force (USPSTF, 2012) does not recommend PSA screening, noting that the test may result in "overdiagnosis" and "overtreatment" because "most prostate cancer is asymptomatic for life," and treatments involve risks of complications including impotence (erectile dysfunction) and incontinence. Only 30 percent of patients with high PSA have prostate cancer diagnosed after biopsy. (Ref. Wikipedia)
NCBI Accession No.	: NM_001648.2
Amino acid sequence	: MYGRRARRRRR APLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAAHCIRNKSVILLGRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRPGDDSSHDLMLLRLSEPAELTDAVKVMDLPTQEPALGTTTCYASGWSIEPEEFLTPKKLQCVDLHVISNDVCAQVHPQKVKFMLCAGRWTGKSTCSGDSGGPLVCNGVLQGITTSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANPLE HHHHHH
Protein Tags	: Polyhistidine
Source	: <i>E. coli</i> .
Cat. No.	: A-PC04
Storage	: Should be at ≤ -70 °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.

Quality Control

Test items	Specifications
Appearance	: Clear, colorless liquid
Formulation	: 10mM Tris, 50mM Glycine, 10% Glycerol (pH 7.5-8.5) without preservative or carrier proteins.
Stability	: Stable for up to 12 months at -70 °C.
Molecular Mass	: 29.52 kDa
Specificity	: Using Western blot, detection
Purity	: Greater than 95 % by SDS-PAGE
Concentration	: Determined by Bradford method
Endotoxin	: Less than 1.0 EU/ μ g as determined by the LAL method
Sterility	: Sterilized through a 0.2 μ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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