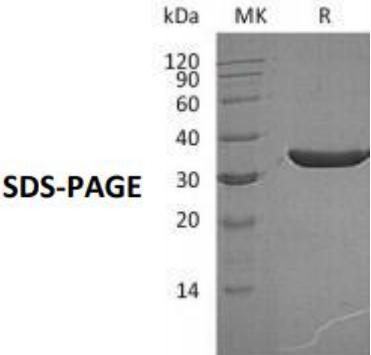


Recombinant Human KLK3 (Ile25-Pro261)

Catalog#:P01787 Derived from Human Cells

DESCRIPTION	<p>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.</p> <p>Accession#: P07288</p> <p>Known as: Prostate-specific antigen; PSA; Gamma-seminoprotein; Kallikrein-3; P-30 antigen; Semenogelase; KLK3; APS</p>
FORMULATION	Supplied as a 0.2 μ m filtered solution of 50mM Tris-HCl, 10mM CaCl ₂ , 150mM NaCl, 0.05% Brij 35, pH 7.5.
SHIPPING	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Store at \leq -70°C, stable for 6 months after receipt. Store at \leq -70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
QUALITY CONTROL	<p>Mol Mass:27.1kDa AP Mol Mass:35kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.</p>
BACKGROUND	<p>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>SDS-PAGE</p>	