

Product Name: Recombinant Human KLK3 (236AA, C-6His)
Catalog #: PHH1034

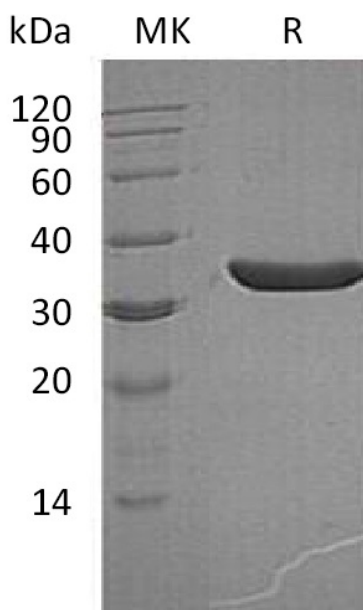


Summary

Name	Kallikrein 3/PSA/KLK3 (25-261)
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	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.
Accession #	P07288
Host	Human Cells
Species	Human
Predicted Molecular Mass	27.1 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Glycine-HCl, 150 mM NaCl, 20% Glycerol, 10 mM CaCl ₂ , 0.05% Tween 80, pH3.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤ -70°C, stable for 6 months after receipt. Store at ≤ -70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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Alternative Names

Prostate-specific antigen; PSA; Gamma-seminoprotein; Kallikrein-3; P-30 antigen; Semenogelase; KLK3; APS

Background

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 Zn^{2+} , 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.

Note

For Research Use Only , Not for Diagnostic Use.