Human Kallikrein 3/PSA Protein (pro form), Ultra Low Endotoxin

Cat. No. KLK-HM103-UL

Description

Source	Recombinant Human Kallikrein 3/PSA Protein is expressed from HEK293 with His tag at the C-Terminus. The protein needs to be activated by Thermolysin for an activated form.
	It contains Ala18-Pro261.
Accession	P07288-1
Molecular Weight	The protein has a predicted MW of 27.93 kDa. Due to glycosylation, the protein migrates to 32-38 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

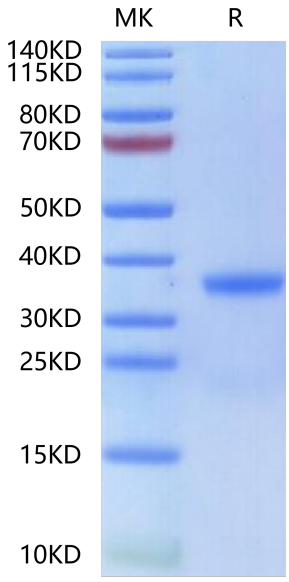
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Kallikrein-related peptidase 3 (KLK3), also known as prostate-specific antigen (PSA), is the most useful biomarker for prostate cancer (PCa). KLK3 is suggested to play a role in regulating cancer growth through anti-angiogenic activity in vivo and in vitro.

Assay Data

Bis-Tris PAGE



Human Kallikrein 3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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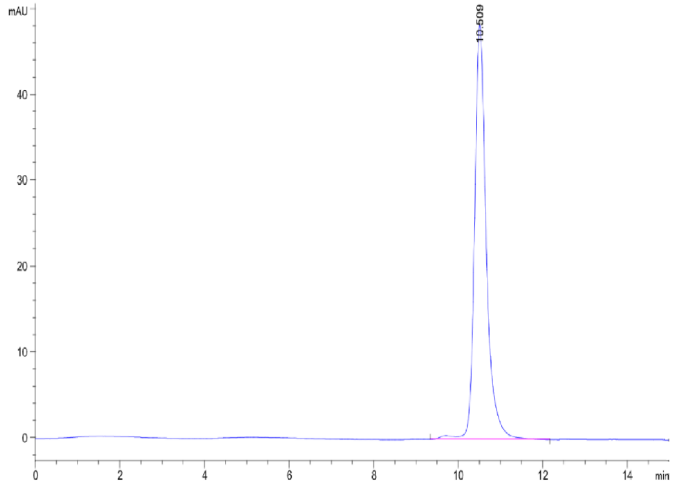
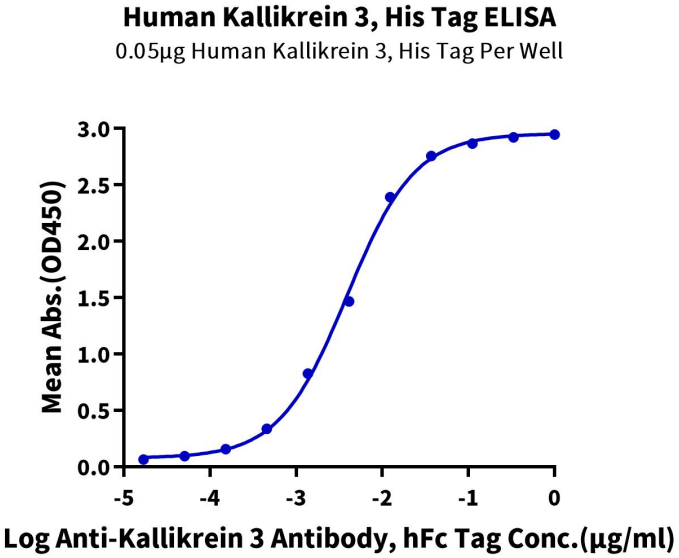
Assay Data



The purity of Human Kallikrein 3 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human Kallikrein 3, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-Kallikrein 3 Antibody, hFc Tag with the EC50 of 3.9ng/ml determined by ELISA.

Bioactivity Data

Measured by its ability to cleave the colorimetric peptide substrate, Succinyl-Arg-Pro-Tyr-p-Nitroanilide (Suc-RPY-pNA). The specific activity is >150 pmol/min/μg.