

Cynomolgus Kallikrein 3/PSA Protein (active form), Ultra Low Endotoxin



Cat. No. KLK-CM13A-UL

Description

Source	Recombinant Cynomolgus Kallikrein 3/PSA Protein (active form) is expressed from HEK293 with His tag at the C-terminus. It contains Ile25-Pro261.
Accession	Q6DT45
Molecular Weight	The protein has a predicted MW of 27.76 kDa. Due to glycosylation, the protein migrates to 30-38 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

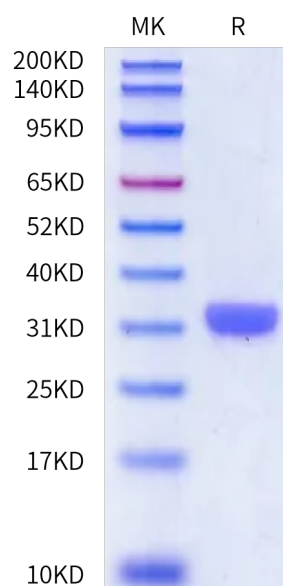
Formulation	Lyophilized from 0.22 µm filtered solution in 50mM Tris, 150mM NaCl, 8% trehalose, 0.05%Brij-35 (pH 7.5).
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied 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

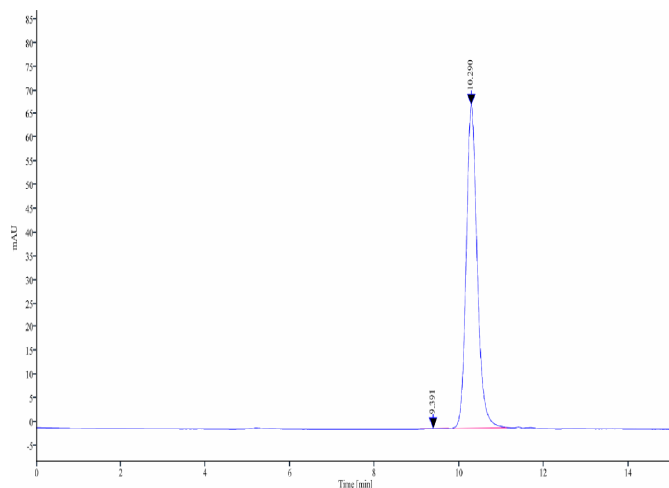
Bis-Tris PAGE



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

SEC-HPLC

Assay Data



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

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 >100 pmol/min/μg.