

Biotinylated Human Kallikrein 3/PSA Protein (active form) (Primary Amine Labeling)



Cat. No. KLK-HM003B

Description	
Source	Recombinant Biotinylated Human Kallikrein 3/PSA Protein (active form) is expressed from HEK293 without tag. It contains Ile25-Pro261.
Accession	P07288-1
Molecular Weight	The protein has a predicted MW of 26.08 kDa. Due to glycosylation, the protein migrates to 28-38 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 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, 0.05% Brij-35 (pH 7.5). 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.	

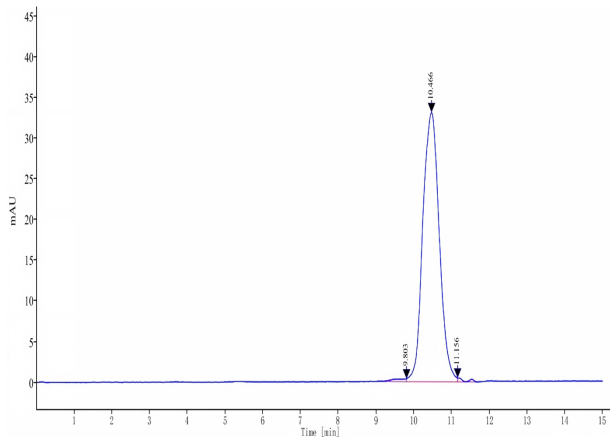
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

Biotinylated Human Kallikrein 3/PSA Protein (active form) (Primary Amine Labeling)



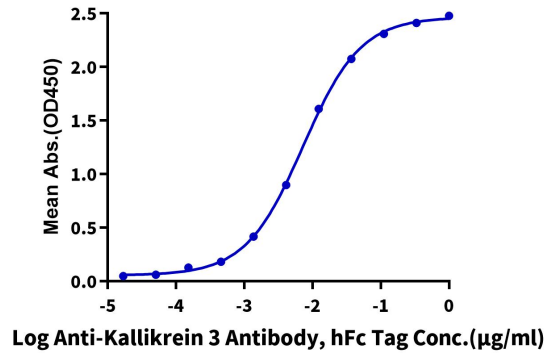
Cat. No. KLK-HM003B

Assay Data

ELISA Data

Biotinylated Human Human Kallikrein 3, No Tag ELISA

0.05µg Biotinylated Human Human Kallikrein 3, No Tag Per Well



Immobilized Biotinylated Human Human Kallikrein 3, No Tag at 0.5µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-Kallikrein 3 Antibody, hFc Tag with the EC50 of 7.3ng/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 >500 pmol/min/µg.