

Biotinylated Human Kallikrein 5/KLK5 Protein (active form)



Cat. No. KLK-HM405B

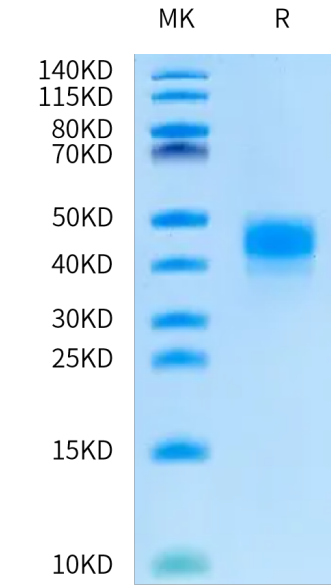
Description	
Source	Recombinant Biotinylated Human Kallikrein 5/KLK5 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Ile67-Ser293.
Accession	Q9Y337
Molecular Weight	The protein has a predicted MW of 32.51 kDa. Due to glycosylation, the protein migrates to 40-50 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 MES, 150mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in 50mM MES, 150mM NaCl (pH 5.5). 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	
The inhibition of kallikrein 5 (KLK5) has been identified as a potential strategy for treatment of the genetic skin disorder Netherton syndrome, in which loss-of-function mutations in the SPINK5 gene lead to down-regulation of the endogenous inhibitor LEKTI-1 and profound skin-barrier defects with severe allergic manifestations. To aid in the development of a medicine for this target, an X-ray crystallographic system was developed to facilitate fragment-guided chemistry and knowledge-based drug-discovery approaches.	

Assay Data

Bis-Tris PAGE



Biotinylated Human Kallikrein 5 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

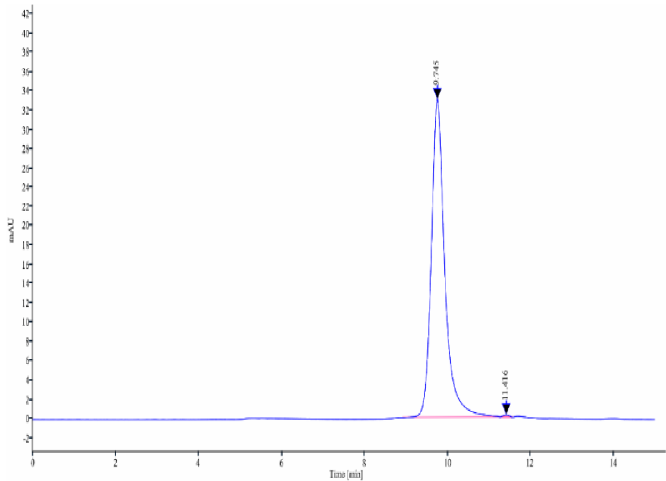
SEC-HPLC

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Assay Data

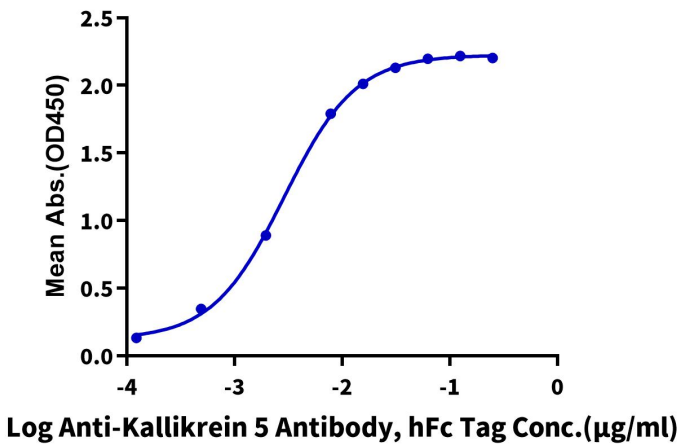


The purity of Biotinylated Human Kallikrein 5 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human Kallikrein 5, His-Avi Tag ELISA

0.1µg Biotinylated Human Kallikrein 5, His-Avi Tag Per Well



Immobilized Biotinylated Human Kallikrein 5, His-Avi Tag at 1µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-Kallikrein 5 Antibody, hFc Tag with the EC50 of 2.9ng/ml determined by ELISA.

Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC. The specific activity is >200 pmol/min/µg.