Human Kallikrein 5/KLK5 Protein (active form)



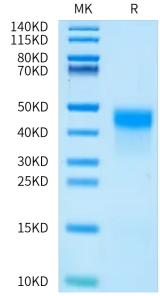


Cat. No. KEK-HIMOUS	,
Description	
Source	Recombinant Human Kallikrein 5/KLK5 Protein is expressed from HEK293 with His tag and Flag tag at the C-terminus.
	It contains Ile67-Ser293.
Accession	Q9Y337
Molecular Weight	The protein has a predicted MW of 31.7 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis 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 μ m 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 receipt80°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

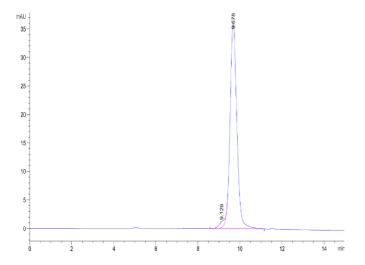


SEC-HPLC

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

KAGTUS

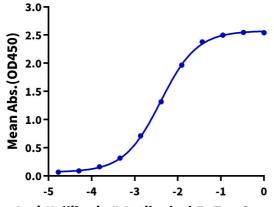
Assay Data



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

ELISA Data

Human Kallikrein 5, His Tag ELISA 0.05μg Human Kallikrein 5, His Tag Per Well



Log Anti-Kallikrein 5 Antibody, hFc Tag Conc.(μg/ml)

Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC. The specific activity is >350 pmol/min/ μg .

Immobilized Human Kallikrein 5, His Tag at $0.5\mu g/ml$ (100 μ l/well) on the plate. Dose response curve for Anti-Kallikrein 5 Antibody, hFc Tag with the EC50 of 4.0ng/ml determined by ELISA.