#### Human Kallikrein 5/KLK5 Protein

Cat. No. KLK-HM105



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Description	
Source	Recombinant Human Kallikrein 5/KLK5 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Val23-Ser293.
Accession	Q9Y337
Molecular Weight	The protein has a predicted MW of 30.7 kDa. Due to glycosylation, the protein migrates to 42-48 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC
Formulation and	Storage
Formulation	Lyophilized from 0.22µm filtered solution in 50mM MES, 150mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in 50mM MES, 150mM NaCl (pH 5.5).

# Storage

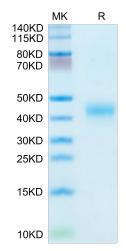
-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3-6 months after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

### **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**

### Tris-Bis PAGE



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

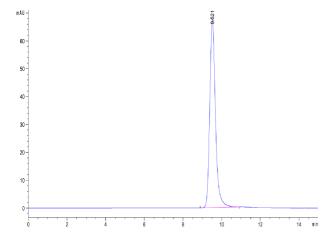
**SEC-HPLC** 

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# KNGTUS

## **Assay Data**



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

### Human Kallikrein 5/KLK5 Protein

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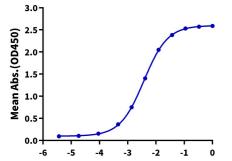
# KAGTUS

### **Assay Data**

**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)

Immobilized Human Kallikrein 5, His Tag at  $0.5\mu g/ml$  (100 $\mu$ l/Well) on the plate. Dose response curve for Anti-Kallikrein 5 Antibody, hFc Tag with the EC50 of 3.7ng/ml determined by ELISA.