

Datasheet for ABIN7275095

**Kallikrein 5 Protein (KLK5) (AA 23-293) (His tag)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	Kallikrein 5 (KLK5)
Protein Characteristics:	AA 23-293
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Kallikrein 5 protein is labelled with His tag.

## Product Details

Purpose:	Human Kallikrein 5/KLK5 Protein
Sequence:	Val23-Ser293
Characteristics:	Recombinant Human Kallikrein 5/KLK5 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val23-Ser293.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human Kallikrein 5, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-Kallikrein 5 Antibody, hFc Tag with the EC50 of 12.2ng/ml determined by ELISA. See testing image for detail.

## Target Details

Target:	Kallikrein 5 (KLK5)
Alternative Name:	Kallikrein 5 ( <a href="#">KLK5 Products</a> )
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.
Molecular Weight:	30.7 kDa. Due to glycosylation, the protein migrates to 42-48 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">Q9Y337</a>
Pathways:	<a href="#">Complement System</a> , <a href="#">Regulation of G-Protein Coupled Receptor Protein Signaling</a>

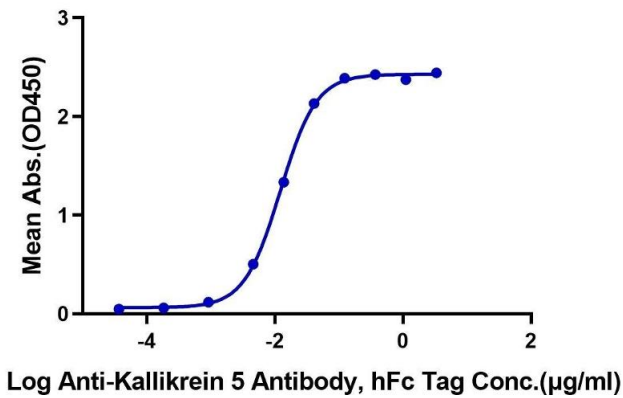
## Application Details

Restrictions:	For Research Use only
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## Handling

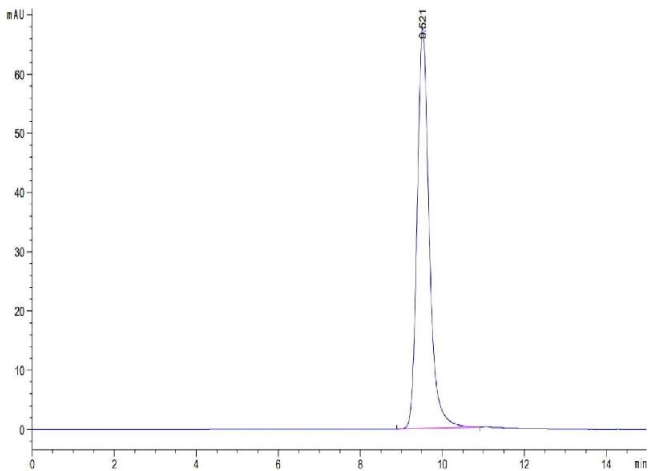
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in 50 mM MES, 150 mM NaCl ( pH 5.5).
Buffer:	Lyophilized from 0.22µm filtered solution in 50 mM MES, 150 mM NaCl ( pH 5.5). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-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.
Expiry Date:	12 months

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



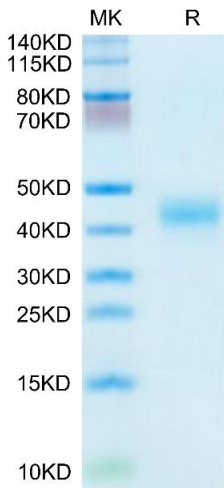
**ELISA**

**Image 1.** Immobilized Human Kallikrein 5, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-Kallikrein 5 Antibody, hFc Tag with the EC50 of 12.2 ng/mL determined by ELISA.



**Size-exclusion chromatography-High Pressure Liquid Chromatography**

**Image 2.** The purity of Human Kallikrein 5 is greater than 95 % as determined by SEC-HPLC.



**SDS-PAGE**

**Image 3.** Human Kallikrein 5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .