

# Mouse Kallikrein 5/KLK5 Protein (active form), Ultra Low Endotoxin



Cat. No. KLK-MM105-UL

## Description

<b>Source</b>	Recombinant Mouse Kallikrein 5/KLK5 Protein (active form) is expressed from HEK293 with His tag at the C-terminus. It contains Gly30-Asn293.
<b>Accession</b>	Q9D140
<b>Molecular Weight</b>	The protein has a predicted MW of 29.9 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

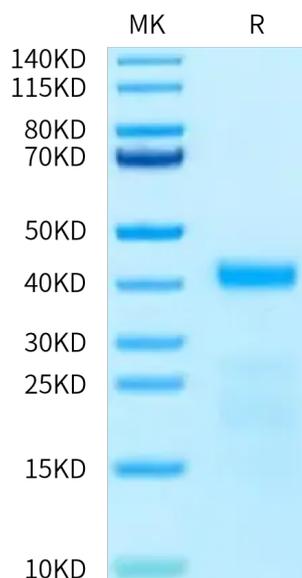
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in 20mM NaAc, 150mM NaCl, 8% trehalose (pH 5.0).
<b>Reconstitution</b>	Dissolve the lyophilized protein in 20mM NaAC (pH 5.0). Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months 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

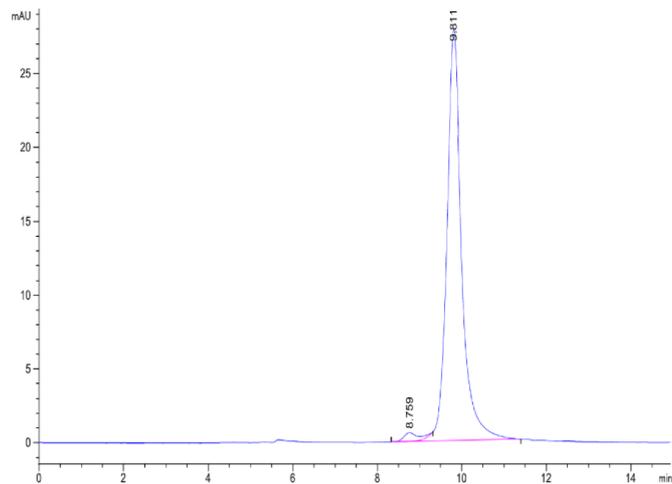
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data



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

Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC. The specific activity is >5000 pmol/min/μg.