

# Human Kallikrein 7/KLK7 Protein (pro form)

Cat. No. KLK-HM617



## Description

<b>Source</b>	Recombinant Human Kallikrein 7/KLK7 Protein (pro form) is expressed from HEK293 with His tag and Flag tag at the C-terminus. The protein needs to be activated by Thermolysin for an activated form.
	It contains Glu23-Arg253.
<b>Accession</b>	P49862
<b>Molecular Weight</b>	The protein has a predicted MW of 27.29 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 0.1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

## Formulation and Storage

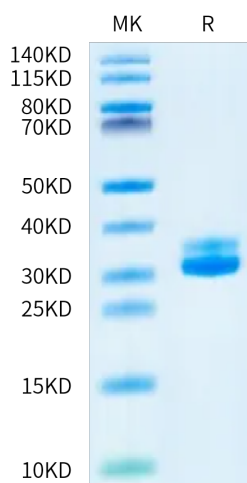
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in 20mM HEPES, 150mM NaCl (pH 7.5).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Kallikrein 7 (KLK7) is a secreted serine protease with chymotryptic protease activity. Abnormally high expression of KLK7 is closely related to the occurrence and development of various types of cancer. Therefore, KLK7 has been identified as a potential target for cancer drug development design in recent years. KLK7 mediates various biological and pathological processes in tumorigenesis, including cell proliferation, migration, invasion, angiogenesis, and cell metabolism, by hydrolyzing a series of substrates such as membrane proteins, extracellular matrix proteins, and cytokines.

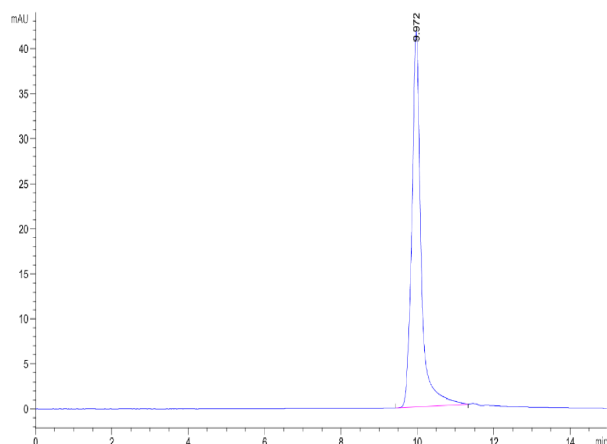
## Assay Data

### Bis-Tris PAGE



Human Kallikrein 7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human Kallikrein 7 is greater than 90% as determined by SEC-HPLC.

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#### Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH<sub>2</sub>. The specific activity is >150 pmol/min/μg.