

# Recombinant Human Kallikrein-Related Peptidase 7, His-tagged

**Cat. No.** KLK7-7169H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human KLK7 protein, fused to His-tag at N-terminus, was expressed in E. coli. MW: 27.1 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 30-253aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | KLK7 is a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikreins are biomarkers for cancer. The protein has chymotrypsin-like activity and plays a role in the proteolysis of intercellular cohesive structures that precedes desquamation, the shedding of the outermost layer of the epidermis. KLK7 may play a role in cancer invasion and metastasis, and increased expression of this protein is associated with unfavorable prognosis and progression of several types of cancer. Polymorphisms in this gene may play a role in the development of atopic dermatitis. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M UREA, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 27.1 kDa (249aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSBMIIDGA PCARGSHPWQ VALLSGNQLH<br>CGGVLVNERW VLTAAHCKMN EYTVHLGSDT LGDRRAQRIK ASKSFRHPGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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STQTHVNDLM LVKLNSQARL SSMVKKVRLP SRCEPPGTTC TVSGWGTTTS  
 PDVTFPSDLM CVDVKLISPQ DCTKVYKDLL ENSMLCAGIP DSKKNACNGD  
 SGGPLVCRGT LQGLVSWGTF PCGQPNDPGV YTQVCKFTKW INDTMKKHR

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [KLK7 kallikrein-related peptidase 7 \[ Homo sapiens \]](#)

**Official Symbol** KLK7

**Synonyms** KLK7; kallikrein-related peptidase 7; kallikrein 7 (chymotryptic, stratum corneum) , PRSS6; kallikrein-7; SCCE; signal protein; serine protease 6; stratum corneum chymotryptic enzyme; kallikrein 7 (chymotryptic, stratum corneum); hK7; PRSS6;

**Gene ID** [5650](#)

**mRNA Refseq** [NM\\_001243126](#)

**Protein Refseq** [NP\\_001230055](#)

**MIM** [604438](#)

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|----------------------------|-----------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | P49862                                                                                  |
| <b>Chromosome Location</b> | 19q13.33                                                                                |
| <b>Function</b>            | peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity; |

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