

Recombinant Human Kallikrein-Related Peptidase 7, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human KLK7 protein, fused to His-tag at N-terminus, was expressed in E. coli. MW: 27.1 kDa.
Species	Human
Source	E.coli
ProteinLength	30-253aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M UREA, 10% glycerol.
Molecular Mass	27.1 kDa (249aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSBMIIDGA PCARGSHPWQ VALLSGNQLH 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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UniProt ID	P49862
Chromosome Location	19q13.33
Function	peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity;

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