

Recombinant Human KLK7 Protein, His-tagged

Cat. No. KLK7-080H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KLK7 protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	253
Description	This gene encodes a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikrein genes are biomarkers for cancer. The encoded 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. The encoded protein may play a role in cancer invasion and metastasis, and increased expression of this gene 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. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, which is one of fifteen kallikrein subfamily members located in a gene cluster on chromosome 19.
Form	Lyophilized
Molecular Mass	26.2 kDa
AA Sequence	MARSLLLPLQILLLSLALETAGEEAQGDKIIDGAPCARGSHPWQVALLSGNQLHCGG

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VLVNERWVLTAAHCKMNEYTVHLGSDTLGDRRAQRIKASKSFRHPGYSTQTHVNDL
MLVKLNSQARLSSMVKKVRLPSRCEPPGTTCTVSGWGTTTSPDVTFPSDLMCVDV
KLISPQDCTKVYKDLENSMLCAGIPDSKKNACNGDSGGPLVCRGTLQGLVSWGTF
PCGQPNDPGVYTQVCKFTKWINDTMKKHR

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

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

Official Symbol [KLK7](#)

Synonyms KLK7; kallikrein-related peptidase 7; kallikrein 7 (chymotryptic, stratum corneum) ,

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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

UniProt ID P49862

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