

Recombinant Human KLK7

Cat. No. KLK7-26893TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 31-130 of Human Kallikrein 7 with an N terminal proprietary tag; Predicted MWt 36.63 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Abundantly expressed in the skin and is expressed by keratinocytes in the epidermis. Also expressed in the brain, mammary gland, cerebellum, spinal cord and kidney.

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	Lower levels in salivary glands, uterus, thymus, thyroid, placenta, trachea and testis. Up
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	IDGAPCARGSHPWQVALLSGNQLHCGGVLVNERWWLTAAHCKMNEYTVHLGSDTL GDRRAQRIKASKSFRHPGYSTQTHVNDLMLVKLNSQARLSSMVKK
Sequence Similarities	Belongs to the peptidase S1 family. Kallikrein subfamily.Contains 1 peptidase S1 domain.

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;
Gene ID	5650
mRNA Refseq	NM_001243126

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Protein Refseq	NP_001230055
MIM	604438
Uniprot ID	P49862
Chromosome Location	19q13.33
Function	peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity;

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