

# Active Recombinant Human Kallikrein-Related Peptidase 11

Cat. No. KLK11-1360H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	KLK11 Human Recombinant produced in HEK-293 cells is a single, glycosylated, polypeptide chain having a molecular weight of 25.6kDa though on SDS-PAGE migrates at about 41kDa due to the glycosilation. The KLK11 is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	KLK11 is a multifunctional protease. KLK11 cleaves "bz-Phe-Arg-4-methylcoumaryl-7-amide", KLK11 is a kallikrein substrate, and weakly cleaves other substrates for kallikrein and trypsin. KLK11 cleaves synthetic peptides after arginine rather than lysine residues.
<b>Form</b>	The KLK11 protein was lyophilized from a 0.2µm filtered solution containing no additives or preservatives.
<b>Purity</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Bio-activity</b>	KLK11 specific activity is greater than 2200 pmoles/min/µg when measure with 100uM colormetric peptide substrate (D-Val-Leu-Lys-ThioBenzyl ester) and 1 µg of activated enzyme. The reaction is carried out in a volume of 100µL containing 50mM Tris, 1M NaCl, 10mM EDTA, 0.1mM DTNB (5,5µDithio-bis(2-nitrobenzoic acid)), pH8.5 at 37°C. Cleavage of the peptide substrate can be measured at a wavelength

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of 405nm and quantified using the extinction coefficient 13,260M<sup>-1</sup>cm<sup>-1</sup>.

**Physical Appearance** Sterile Filtered White lyophilized (freeze-dried) powder.

**Solubility** It is recommended to reconstitute the lyophilized KLK11 in sterile 18Mμ-cm H<sub>2</sub>O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

**Amino acid sequence**

ETRIIKGFEC KPHSQPWQAA LFEKTRLLCG ATLIAPRWLL TAAHCLKPRY  
IVHLGQHNLQ KEEGCEQTRT ATESEFHPGPF NNSLPNKDHR NDIMLVKMAS  
PVSITWAVRP LTLSSRCVTA GTSCCLISGWG STSSPQLRLP HTLRCANITI  
IEHQKCENAY PGNITDTMVC ASVQEGGKDS CQGDSGGPLV CNQSLQGIIS  
WGQDPCAIR KPGVYTKVCK YVDWIQETMK NN.

**Storage**

Lyophilized KLK11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution KLK11 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** [KLK11 kallikrein-related peptidase 11 \[ Homo sapiens \]](#)

**Official Symbol** [KLK11](#)

**Synonyms**

kallikrein-related peptidase 11; TLSP; PRSS20; MGC33060; KLK11; hK11; kallikrein 11; hippostasin; protease, serine, trypsin-like; protease, serine, 20 trypsin-like; EC 3.4.21.-; Hippostasin; hippostasin; Serine protease 20; Trypsin-like protease; kallikrein-related peptidase 11

**Gene ID** [11012](#)

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<b>mRNA Refseq</b>	NM_001136032
<b>Protein Refseq</b>	NP_001129504
<b>MIM</b>	604434
<b>UniProt ID</b>	Q9UBX7
<b>Chromosome Location</b>	19q13.3-q13.4
<b>Function</b>	serine-type endopeptidase activity; peptidase activity

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