

Active Recombinant Human Kallikrein-Related Peptidase 11

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human
Description	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.
Form	The KLK11 protein was lyophilized from a 0.2µm filtered solution containing no additives or preservatives.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Bio-activity	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-1cm-1.

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

Solubility It is recommended to reconstitute the lyophilized KLK11 in sterile 18M μ -cm H₂O 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 ATESEFHPGF NNSLPNKDHR NDIMLVKMAS
 PVSITWAVRP LTLSSRCVTA GTSCLSIGWG 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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mRNA Refseq	NM_001136032
Protein Refseq	NP_001129504
MIM	604434
UniProt ID	Q9UBX7
Chromosome Location	19q13.3-q13.4
Function	serine-type endopeptidase activity; peptidase activity

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