

Active Recombinant Human KLK11 Protein (232 aa)

Cat. No. KLK11-140K **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Kallikrein-11(rhKLK-11) secreted in Sf9 insect cells is a single glycosylated polypeptide chain containing 232 amino acids. A fully biologically active molecule, rhKallikrein-11 has a molecular mass of 35.0 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Human
Source	Sf9 Cells
ProteinLength	232
Description	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Kallikrein-11 (KLK-11) is possible multifunctional protease. KLK11 efficiently cleaves 'b z-Phe-Arg-4-methylcoumaryl-7-amide', a kallikrein substrate, and weakly cleaves other substrates for kallikrein and trypsin. Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	KLK-11 specific activity is > 2000 pmole/min/μg when measured by 100uM colorimetric peptide substrate (D-Val-Leu-Lys-ThioBenzyl ester).
Molecular Mass	35.0 kDa, observed by reducing SDS-PAGE.

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AA Sequence	EFAATMLLVNQSHQGFNKEHTSKMVSAIVLYVLLAAAAHSAFAHHHHHHGSGSDDD DKETRIIKGFECKPHSQPWQAALFEKTRLLCGATLIAPRWLLTAAHCLKPRYIVHLGQ HNLQKEEGCEQTRTATESFPHPGFNNSLPNKDHRNDIMLVKMASPVSITWAVRPLT LSSRCVTAGTSCLISGWGSTSSPQLRPLPHTLRANITIEHQKCNAYPGNITDTMVC ASVQEGGKDSCQGDSGGPLVCNQSLQGIISWGQDPCAITRKPVGVTYTKVCKYVDWI QETMKNN
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant human Kallikrein-11(rhKLK-11) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhKLK-11 should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS, pH7.4
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	KLK11 kallikrein-related peptidase 11 [Homo sapiens]
Official Symbol	KLK11
Synonyms	KLK11; kallikrein-related peptidase 11; kallikrein 11, PRSS20; kallikrein-11; TLSP; hK11; hippostasin; kallikrein 11; serine protease 20; trypsin-like protease; PRSS20; MGC33060;
Gene ID	11012

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mRNA Refseq	NM_001136032
Protein Refseq	NP_001129504
MIM	604434
UniProt ID	Q9UBX7

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