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 othe r substrates for kallikrein and trypsin. Kallikreins are a subgroup of serine proteases h aving diverse physiological functions. Growing evidence suggests that many kallikrein s 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 colormetric 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 LSSRCVTAGTSCLISGWGSTSSPQLRLPHTLRCANITIIEHQKCENAYPGNITDTMVC ASVQEGGKDSCQGDSGGPLVCNQSLQGIISWGQDPCAITRKPGVYTKVCKYVDWI 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 ddH2O 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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