

Kallikrein-11, Human

Cat. No.: Z03035-50

Size: 50.0 ug

Synonyms: kallikrein-related peptidase 11, TLSP, hippostasin, Kallikrein-11, hK11, Hippostasin, Trypsin-like protease, Serine protease 20, PRSS20, MGC33060, EC 3.4.21.

Description:

Kallikreins are a subgroup of serine proteases having diverse physiological functions. Kallikrein-11 (KLK-11) is possible multifunctional protease. KLK11 efficiently cleaves 'bz-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.

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 at GenScript.

Amino Acid Sequence:

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00001 EFAATMLLVN QSHQGFNKEH TSKMVSAILV YVLLAAAAHS
00041 AFAHHHHHHG SGGDDDDKET RIIKGFECKP HSQPWQAALF
00081 EKTRLLCGAT LIAPRWLLTA AHCLKPRYIV HLGQHNLQKE
00121 EGCEQTRTAT ESFPHPGFNN SLPNKDHRND IMLVKMASPV
00161 SITWAVRPLT LSSRCVTAGT SCLISGWGST SSPQLRLPHT
00201 LRCANITIEE HQKCENAYPG NITDTMVCAS VQEGGKDSQC
00241 GDSGGPLVCN QSLQGIISWG QDPCAITRKP GYTKVCKYV
00281 DWIQETMKNN
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Source: *Sf9 insect cells*

Species: Human

Biological Activity: KLK-11 specific activity is > 2000 pmole/min/μg when measured by 100uM colorimetric peptide substrate (D-Val-Leu-Lys-ThioBenzyl ester).

Molecular Weight: 35.0 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS, pH7.4

Reconstitution: Reconstituted in ddH₂O at 100μg/ml.

Purity: > 95% by SDS-PAGE and HPLC analyses.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant human Kallikrein-11(rhKLK-11) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhKLK-11 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.