

Overview

Synonyms	kallikrein-related peptidase 11, TLSP, hippostasin, Kallikrein-11, hK11, Hippostasin, Trypsin-like protease, Serine protease 20, PRSS20, MGC33060, EC 3.4.21.
Description	<p>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.</p> <p>Recombinant human Kallikrein-11(rhKLK-11) secreted in <i>Sf9 insect cells</i> 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.</p>
Accession No	Q9UBX7
Species	Human
Source	<i>Sf9 insect cells</i>
Biological Activity	KLK-11 specific activity is > 2000 pmole/min/μg when measured by 100uM colormetric peptide substrate (D-Val-Leu-Lys-ThioBenzyl ester).
Sequence	<p>EFAATMLLVN QSHQGFNKEH TSKMVSAIVL YVLLAAAAHS AFAHHHHHHG SGSDDDDKET RIIKGFECKP HSQPWQAALF EKTRLLCGAT LIAPRWLLTA AHCLKPRYIV HLGQHNLOKE EGCEQTRTAT ESFPHPGFNN SLPNKDRND IMLVKMASPV SITWAVRPLT LSSRCVTAGT SCLISGWGST SSPQLRLPHT LRCANITIE HQKCENAYPG NITDTMVCAS VQEGGKDSCQ GDSGGPLVCN QSLQGIISWG QDPCAITRKP GVYTKVCKYV DWIQETMKNN</p>

Properties

Molecular Weight	25.6
Measured Molecular Weight	35.0 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against PBS, pH7.4
Reconstitution	Reconstituted in ddH ₂ O at 100μg/ml.
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.
Note	For research use only

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