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KLK11 Human

Description:KLK11 Human Recombinant produced in HEK-293 cells is a single, glycosylated, polypeptide chain having a molecular weight of25.6kDa thoμgh on SDS-PAGE migrates at about 41kDa due to the glycosilation.The KLK11 is purified by proprietary chromatographic techniques.

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

Source:HEK293-F Cells.

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

Amino Acid Sequence:ETRIIKGFEC KPHSQPWQAA LFEKTRLLCG ATLIAPRWLL TAAHCLKPRY IVHLGQHNLQ KEEGCEQTRT ATESFPHPGF NNSLPNKDHR NDIMLVKMAS PVSITWAVRP LTLSSRCVTA GTSCLISGWG STSSPQLRLP HTLRCANITI IEHQKCENAY PGNITDTMVC ASVQEGGKDS CQGDSGGPLV CNQSLQGIIS WGQDPCAITR KPGVYTKVCK YVDWIQETMK NN

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The KLK11 protein was lyophilized from a 0.2

Stability:
Lyophilized KLK11 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution KLK11 should be storedat 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.

Usage:
NeoBiolab's products are furnished forLABORATORY RESEARCHUSEONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized KLK11 in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Introduction:
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.

Biological Activity:
KLK11 specific activity is greater than 2200 pmoles/min/g when measure with 100uM colormetric peptide substrate (D-Val-Leu-Lys-ThioBenzyl ester) and 1 g of activated enzyme. The reaction is carried out in a volume of 100L containing 50mM Tris, 1M NaCl, 10mM EDTA, 0.1mM DTNB (5,5Dithio-bis(2-nitrobenzoic acid)), pH8.5 at 37°C. Cleavage of the peptide substrate can be measured at a wavelength of 405nm and quantified using the extinction coeffiecient 13,260M-1cm-1.

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