

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Kallikrein-1 (rHuKLK-1)

Catalog Number: PR1077

Source: Escherichia coli.

Quantity: 20µg/100µg/1.0mg

Description

Kallikreins are members of a highly conserved serine proteases that are involved in the post-translational modification of many polypeptides, and plays a role in diverse physiological processes. Fifteen kallikreins who seen coding genes are located in a cluster on chromosome 19 have been reported, and growing evidence suggests that many kallikreins are implicated in carcinogens is and some have potential as novel cancer and other disease biomarkers. Human kallikrein1(KLK1), also known as tissue kallikrein, is functionally conserved in its capacity to cleave the low molecular weight kininogen to release the vasoactive peptide, Lys-bradykinin which plays a role in regulating vasodilation, blood pressure reduction, smooth muscle relaxation and contraction, pain induction and inflammation.

Molecular Weight:

Approximately 29.7 kDa, a single non-glycosylated polypeptide chain containing 262 amino acids with 6×His at C-terminus.

Purity:

>90% by SDS-PAGE and HPLC analyses.

Biological Activity:

Measured by its ability to cleave a fluorogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin (PFRAMC). The specific activity is > 2,000pmoles/min/µg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

AA Sequence:

MWFLVLCALSLGGTGAAPPISRIVGGWECQHSQPWQAALYHFSTFQCGGILVHRQWVLTAAHCISDNYQLWLGRHNLFDDENTAQFVHVSESFPHPGFNMSLLENHTRQADEDYSHDLMLLRLTEPADTITDAVKVVELPTEPEV GSTCLASGWGSI EPENFSFPDDLQCVDLKI LPNDECKKAHVQKVTFDFMLCVGHLEGGKDT CVGDSGGPLMCDGVLQGVTSWGYVPCGTPNKP SVAVRVLSYVKWIEDTIAENSHHHHHH

Endotoxin:

Less than 1EU/mg of rHuKLK-1 as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconsti-

MADE IN CHINA

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tuted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

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