



Overview

Synonyms KLK-1, His Human;

> 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 **Description**

and other disease biomakers. Human kallikrein1(KLK1), also known as tissue kallikrein, is functionally conserved in its capacity to cleave the low molecular weight kiningen 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.

Species Human Source E. coli

Fully biologically active when compared to standard. The specific activity determined by

Biological Activity cleaving a flourogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin

(PFRAMC) is not less than 1,500 pmoles/min/µg. MWFLVLCLAL SLGGTGAAPP IQSRIVGGWE CEQHSQPWQA

ALYHFSTFQC GGILVHRQWV LTAAHCISDN YQLWLGRHNL FDDENTAQFV HVSESFPHPG FNMSLLENHT RQADEDYSHD LMLLRLTEPA DTITDAVKVV ELPTEEPEVG STCLASGWGS IEPENFSFPD DLQCVDLKIL PNDECKKAHV QKVTDFMLCV

GHLEGGKDTC VGDSGGPLMC DGVLOGVTSW GYVPCGTPNK

PSVAVRVLSY VKWIEDTIAE NSHHHHHH

Properties

Sequence

Measured Molecular Approximately 29.7 kDa, a single non-glycosylated polypeptide chain containing 268

Weight amino acids with 6 × His at C-terminus. >95% by SDS-PAGE and HPLC analyses. **Purity**

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

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

Reconstitution to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working

aliquots and stored at d -20 °C. Further dilutions should be made in appropriate buffered

solutions.

Endotoxin Level

Less than 1 EU/µg of rHuKLK-1, His as determined by LAL method.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

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 reconstituted preparation into working

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

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