

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Kallikrein-11, Human

Catalog Number: BK0356-50µg

Source: Sf9 insect cells

Quantity: 50µg

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.

Molecular Weight:

35.0 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

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

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS, pH7.4

AA Sequence:

EFAATMLLVNQSHQGFNKEHTSKMVSAI-
VLYVLLAAAAH-
SAFAHHHHHHGSGSDDDDKETRIIKGFECK-
PHSQPWQAALFEKTRLLCGAT-
LIAPRWLLTAAHCLKPRYIVHLGQHNLQKEE-
GCEQTRTATESFPHPGFNNSLPNKDHRNDIM-
LVKMASPVSITWAVRPLTLSSRCV TAGTSCLIS-
GWGSTSSPQLRLPHTLR CANITIEHQKCE-
NAYPGNITDTMVCASVQEGGKDSCQGDSGG-
PLVCNQSLQGIISWGQDPCAITRK-
PGVYTKVCKYVDWIQETMKN

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100µg/ml.

Storage:

Lyophilized recombinant human Kallikrein-11 (rhKLK-11) remains stable up to 6 months at -80 °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.

Usage:

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