

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Keratinocyte Growth Factor-1 (rHuKGF-1)

Catalog Number: PR1079

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

Description

Keratinocyte Growth Factor-1 (KGF-1/FGF-7) is one of 23 known members of the FGF family. All FGFs have two conserved cysteine residues and share 30 - 50% sequence identity at the amino acid level. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of variety of tissues, by promoting cellular proliferation and differentiation. KGF-1/FG-7 is a mitogen factor specific for epithelial cells and keratinocytes and signals through FGFR 2b. KGF-1/FGF-7 plays a role in kidney and lung development, angiogenesis, and wound healing.

Molecular Weight:

Approximately 19.0 kDa, a single, non-glycosylated polypeptide chain containing 164 amino acids.

Purity:

>96% by SDS-PAGE and HPLC analyses.

Biological Activity:

The biological activity was determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing KGF receptors yielding an ED50 <10ng/ml, corresponding to a specific activity of $\geq 1 \times 10^5$ units/mg.

Physical Appearance:

Sterile Filtered White Lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered solution in 20mM PB, pH 8.0, 1M NaCl.

AA Sequence:

M C N D M T P E Q M A T N V N C S S P E R H T R S Y
D Y M E G G D I R V R R L F C R T Q W Y L R I D K R G

K V K G T Q E M K N N Y N I M E I R T V A V G I V A I
K G V E S E F Y L A M N K E G K L Y A K K E C N E D
C N F K E L I L E N H Y N T Y A S A K W T H N G G E
M F V A L N Q K G I P V R G K K T K K E Q K T A H F
L P M A I T

Endotoxin:

Less than 1EU/mg of rHuKGF-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 for several weeks 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.

Usage:

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

MADE IN CHINA

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