Bioworld Technology, Inc.

Recombinant Human Keratinocye Growth Factor-2 (rHuKGF-2)

Catalog Number: PR1078 Source:Escherichia coli. Quantity:5μg/25μg/1.0mg

Description

KGF-2(also known as FGF-10) was originally identified from rat embryos by homology-based polymerase chain reaction. Human and mouse KGF-2 were subsequently cloned. The human KGF-2 cDNA encodes a 208 amino acid residue protein with a hydrophobic amino-terminal signal peptide. Human KGF-2 shares approximately 92% and 95% amino acid sequence identity with mouse and rat KGF-2, respectively. Among the FGF family members, KGF-2 is most closely related to FGF-7. The expression of KGF-2 transcripts has been shown to be most abundant in the embryo and adult lung. Recombinant KGF-2 preparations have been shown to be mitogenic for epithelial and epidermal cells but not fibroblasts. Based on its in vitro biological activities and in vivo expression pattern, KGF-2 has been proposed to play unique roles in the brain, in lung development, wound healing and limb bud formation.

Molecular Weight:

Approximately 19.3 kDa, 170 amino acid residues consisting of Methionine and the mature human KGF-2 (amino acid residues 40 – 208).

Purity:

>96% by SDS-PAGE and HPLC analyses.

Biological Activity:

The biological activity was determined by the does-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors yielding an ED50 <0.5ng/ml., corresponding to a specific activity of 2.0 x 106 Units/mg.

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:

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

Endotoxin:

Less than 1EU/mg of rHuKGF-2 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 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

Bioworld Technology, Inc.
1660 South Highway 100, Suite 500 St. Louis Park,MN 55416,USA.
Email: info@bioworlde.com
Tel: 6123263284 Fax: 6122933841

Bioworld technology, co, Ltd.
No 9, weidi road Qixia District Nanjing, 210046, P, R.China.
Email: info@biogot.com
Tel: 0086-025-86371664 Fax:0086-025-86213570