

## KGF Mouse

**Description:** Keratinocyte Growth Factor-1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 164 amino acids and having a molecular mass of 18.9 kDa. The FGF-7 is purified by proprietary chromatographic techniques.

**Catalog #:** CYP5-728

**Synonyms:** HBGF-7, FGF7, FGF-7, KGF, Keratinocyte growth factor, Fibroblast growth factor 7, Heparin-binding growth factor 7.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** MCNDMSPEQT ATSVNCSSPE RHTRSYDYME GGDIVRRRLF  
CRTQWYLRID KRGKVKGTQE MKNSYNIMEI RTVAVGIVAI KGVESEYYLA MNKEGKLYAK  
KECNEDCNFK ELILENHNT YASAKWTHSG GEMFVALNQK GIPVKGKTK KEQKTAHFLP  
MAIT.

**Purity:** Greater than 95.0% as determined by: (a) Analysis by HPLC. (b) Analysis by SDS-PAGE.

### Formulation:

The protein was lyophilized from a concentrated (1mg/ml) solution containing 20mM Phosphate buffer pH-8 and 0.1M NaCl.

### Stability:

Lyophilized KGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF7 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Solubility:

It is recommended to reconstitute the lyophilized KGF in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Introduction:

KGF is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF7 is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Studies of mouse and rat homologs of this gene implicated roles in morphogenesis of epithelium, reepithelialization of wounds, hair development and early lung organogenesis.

### Biological Activity:

The ED<sub>50</sub>, calculated by the dose-dependant stimulation of KGF-responsive BaF3 indicator cells (measured by <sup>3</sup>H-thymidine uptake) is  
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