

## Recombinant Mouse Keratinocyte Growth Factor (rm KGF / FGF-7)

**Synonyms:** Fibroblast growth factor 7 (FGF-7), Heparin-binding growth factor 7 (HBGF-7)

**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. KGF 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.

**Description:** Recombinant mouse KGF 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 KGF is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a 0.2µm filtered solution containing 20mM PB, pH-8 and 0.1M NaCl  
The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rm KGF in sterile H<sub>2</sub>O not less than 100 µg/ml which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rm KGF although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm KGF 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.

**Purity:** Greater than 95.0% as determined by SDS-PAGE

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

**Biological activity:** Calculated by the dose-dependant stimulation of KGF-responsive BaF3 indicator cells (measured by 3H-thymidine uptake) the ED<sub>50</sub> is <10ng/ml corresponding to a specific activity of 100 Units/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	12343652
<i>medium</i>	10 µg	Cat.N°	12343653

**ImmunoTools** Excellent Quality - Advantageously priced

Gladiolenweg 2; 26169 Friesoythe; Germany  
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)  
[www.immunotools.com](http://www.immunotools.com)