



# **Keratinocyte Growth Factor (KGF/ FGF7), human, active**

## **BACKGROUND**

**Keratinocyte Growth Factor (KGF)**, also known as **Fibroblast Growth Factor 7 (FGF-7)**, is a member of fibroblast growth factor (FGF) family. Although FGF-7 has heparin binding activity similar to FGF-1, its mitogenic activity is predominantly exhibited in keratinocytes. It is not effective to fibroblasts and endothelial cells.

The human FGF-7 lacking the signal sequence (1-31 aa) was expressed in *E. coli* and purified by the chromatographic procedures. This product is an intact enzyme without tag with 19 kDa size (Fig.).

### **Applications:**

1. Mitogen for epithelial cells
2. Western blot control for anti-FGF-7 antibodies
3. Acceleration of wound healing is implied.
4. Acceleration of hair development is implied.

### **Size:**

50 µg

### **Form:**

1.0 mg / ml in PBS (10mM Na-phosphate, 150mM NaCl) pH7.2, 50% glycerol, filter-sterilized

### **Purity:**

>95% as determined by SDS-PAGE (CBB staining)

### **Measurement of the activity:**

The ED50 as determined by a cell proliferation assay using MTS assay kit (CellTiter 96, Promega) with human keratinocyte JCRB141cells was <10 ng/ml.

### **Storage:**

-20°C (long period, -80°C)

### **Data Link**

GeneID: [2252](#)

Gene Sequence: [M60828.1](#)

Amino Acid Sequence: [P21781](#)

### **References:**

- 1) Rubin JS *et al.* (1989) "Purification and characterization of a newly identified growth factor specific for epithelial cells." *Proc Natl Acad Sci USA* **86**: 802-806 PMID: [2915979](#)
- 2) Aaronson SA *et al.* (1991) "Keratinocyte growth factor. A fibroblast growth factor family member with unusual target cell specificity." *Ann NY Acad Sci* **638**:62-77 PMID: [1664700](#)

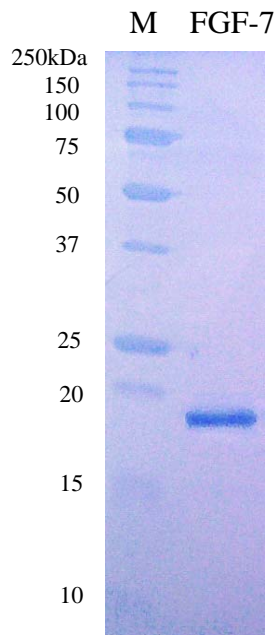


Fig. SDS-PAGE of human FGF-7

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