

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

03-005 50  $\mu$ g, 03-005-5 5 x 50  $\mu$ g

**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.

**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.

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

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

**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](#)

**Related products :** 03-001 human EGF, 03-003 human FGF-1

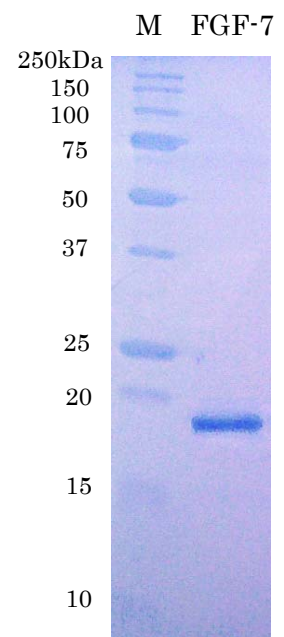


Fig. SDS-PAGE of human FGF-7