

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

03-005 50 µg, # 03-005-5 5 x 50 µg

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. 1)

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.

Specification

Activity: The ED50 as determined by a cell proliferation assay using MTS assay kit (CellTiter 96, Promega) with human keratinocyte JCRB141 cells 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 or for long term storage -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. 1 SDS-PAGE of human FGF-7

