



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)

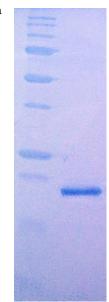
Form: 1.0 mg / ml in PBS (10mM Na-phosphate, 150mM NaCl) pH7.2, 50% glycerol, filter-sterilized Storage: -20°C or for long term storage -80°C

Data Link GeneID: 2252, Gene Sequence: M60828.1, Amino Acid Sequence: P21781

References

250kDa 1. Rubin JS et al. (1989) "Purification and characterization of a newly 150identified growth factor specific for epithelial cells." Proc Natl Acad 100 75Sci USA 86: 802-806 PMID: 2915979 2. Aaronson SA et al. (1991) "Keratinocyte growth factor. A fibroblast 50growth factor family member with unusual target cell specificity." 37 Ann NY Acad Sci 638:62-77 PMID: 1664700 2520Fig. 1 SDS-PAGE of human FGF-7 1510





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