

# Keratinocyte Growth Factor Active Protein | KGF active protein

Recombinant Human Keratinocyte Growth Factor

CATALOG #  
AAA38113

HOST  
E Coli

## PRODUCT SYNONYMS

Keratinocyte Growth Factor; Recombinant Human Keratinocyte Growth Factor; KGF Human; Keratinocyte Growth Factor Human Recombinant; HBGF-7; FGF7; FGF-7; KGF; KGF active protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity/Purification     | Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                                                   |
| Form/Format             | Lyophilized from a 0.2?m filtered solution in 20mM PB, pH 8.0, 1M NaCl.<br>Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                      |
| Sequence                | MCNDMTPEQM ATNVNCSSPE RHTRS DYME GGDIRVRRLF CRTQWYLRI D KRGKVKG TQE MKNYNYIMEI<br>RTVAVGIVAI KGVSEFYLA MNKEGKLYAK KECNEDCNFK ELILENH YNT YASAKWTHNG GEMFVALNQK<br>GIPVRGKGTK KEQKTAHFLP MAIT                                                                                                                                                                                              |
| Sequence Length         | 194                                                                                                                                                                                                                                                                                                                                                                                       |
| Solubility              | It is recommended to reconstitute the lyophilized Keratinocyte Growth Factor in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                          |
| Protein Content         | Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.9 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of KGF as a Reference Standard. |
| Biological Activity     | The biological activity was determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing KGF receptors yielding an ED50 <10ng/ml, corresponding to a Specific Activity of 1.0x105 IU/mg.                                                                                                                                                                     |
| Preparation and Storage | Lyophilized Keratinocyte Growth Factor1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution FGF7 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.             |

## ADDITIONAL INFORMATION

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|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for KGF active protein | <p><b>Description:</b> Keratinocyte Growth Factor-1 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 164 amino acids and having a molecular mass of 18995 Dalton.The FGF-7 is purified by proprietary chromatographic techniques.</p> <p><b>Introduction:</b> 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. FGF7 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.</p> |
| Product Categories/Family for KGF active protein   | Cytokines and Growth Factors; Growth Factors; Keratinocyte Growth Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4503705                                                                                        |
| NCBI GeneID                      | 2252                                                                                           |
| NCBI Accession #                 | NP_002000.1                                                                                    |
| NCBI GenBank Nucleotide #        | NM_002009.3                                                                                    |
| UniProt Accession #              | P21781; Q6FGV5; Q96FG5; H0YNY5                                                                 |
| Molecular Weight                 | 11,520 Da                                                                                      |
| NCBI Official Full Name          | fibroblast growth factor 7                                                                     |
| NCBI Official Synonym Full Names | fibroblast growth factor 7                                                                     |
| NCBI Official Symbol             | FGF7                                                                                           |
| NCBI Official Synonym Symbols    | KGF; HBGF-7                                                                                    |
| NCBI Protein Information         | fibroblast growth factor 7; FGF-7; heparin-binding growth factor 7; keratinocyte growth factor |
| UniProt Protein Name             | Fibroblast growth factor 7                                                                     |
| UniProt Gene Name                | <b>FGF7</b>                                                                                    |
| UniProt Synonym Gene Names       | KGF; FGF-7; HBGF-7                                                                             |
| UniProt Entry Name               | FGF7_HUMAN                                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-kgf-active-protein/keratinocyte-growth-factor/38113>