

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. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MCNDMTPEQM ATNVNCSSPE RHTRS DYME GGDIRVRRLF CRTQWYLRI D KRGKVKG TQE MKNYNNIMEI RTVAVGIVAI KGVSEFYLA MNKEGKLYAK KECNEDCNFK ELILENH YNT YASAKWTHNG GEMFVALNQK 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

Related Product Information for KGF active protein	Description: 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. Introduction: 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.
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	FGF7
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://stage.aaabiotech.com/e-coli-kgf-active-protein/keratinocyte-growth-factor/38113>