

Active Recombinant Human FGF7 Protein

Cat. No. FGF7-638H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF7 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Human KGF-1 also known as Fibroblast growth factor 7 (FGF-7), is encoded by the FGF7 gene. KGF-1 only binds to the b splice form of the tyrosine kinase receptor, FGFR2b KGFR. Affinity between KGF-1 and its receptor can be increased by heparin or heparan sulfate proteoglycan. FGF-10, also called keratinocyte growth factor 2 (KGF-2), shares 51 % amino acid sequence identity and similar function to KGF-1, but uses an additional receptor, FGFR2c. KGF-1 plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. KGF-1 activates on keratinocytes, and exhibits mitogenic activity for epidermal cells, but essentially no activity for fibroblasts. KGF-1 has species crossactive, human KGF-1 shares 96 % amino acid sequence identity with murine, and 92 % with rat.
Form	Sterile Filtered White lyophil
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 10 ng/mL, corresponding to a specific activity of $> 1.0 \times 10^5$ IU/mg.
Molecular Mass	Approximately 18.9 kDa

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AA Sequence	CNDMTPEQMATNVNCSSPERHTRS DYMEGGDIRVRLFCRTQWYLRI DKRGKVK GTQEMKNNYNIMEIRTVAVGIVA IKGVESEFYLAMNKEGKLYAKKECNEDCNFKELIL ENHYNTYASAKWTHNGGEMFVALNQKGIPVRGKKTKKEQKTAHFLPMAIT
Endotoxin	Less than 1 EU/μg of rHuKGF-1/FGF-7 as determined by LAL method.
Purity	> 96% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in 20 mM PB, 0.5 M NaCl, pH 8.0.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

GENE INFORMATION

Gene Name	FGF7 fibroblast growth factor 7 [Homo sapiens (human)]
Official Symbol	FGF7
Synonyms	FGF7; fibroblast growth factor 7; fibroblast growth factor 7 (keratinocyte growth factor); keratinocyte growth factor; KGF; FGF-7; heparin-binding growth factor 7; HBGF-7;
Gene ID	2252

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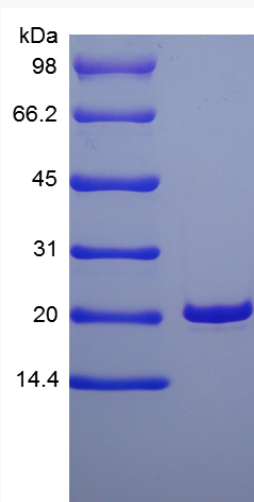
mRNA Refseq [NM_002009](#)

Protein Refseq [NP_00200](#)

MIM [148180](#)

UniProt ID [P21781](#)

SDS-PAGE



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