

## FGF7

### Recombinant Human Fibroblast Growth Factor 7 / KGF-1

<b>Catalog No.</b>	CRK300A CRK300B CRK300C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	FGF-7, Keratinocyte growth factor, KGF, Heparin binding growth factor 7, HBGF-7		
<b>Description:</b>	Human KGF-1 also known as Fibroblast growth factor 7 (FGF-7), 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. KGF/FGF-7 is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. FGF-7 expression is upregulated after acute and chronic injury, suggesting that FGF-7 functions during the healing of injured epithelial cells. FGF-7 also induces the formation of the apical ectodermal ridge during limb development.		
<b>Gene ID:</b>	2252		
<b>UniProt ID:</b>	P21781		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	19 kDa (164 aa)		
<b>Formulation:</b>	Lyophilized from a sterile filtered aqueous solution containing 10 mM sodium phosphate, 100 mM sodium chloride, pH 7.5.		
<b>Purity:</b>	≥ 90% by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤1 EU/µg by kinetic LAL analysis		
<b>Biological Activity:</b>	ED <sub>50</sub> ≤60 ng/ml, determined by the dose-dependent proliferation of monkey 4MBr-5 cells.		
<b>Specific Activity:</b>	≥ 1.7 x 10 <sup>4</sup> U/mg		
<b>Amino Acid Sequence:</b>	MCNDMTPEQM ATNVNCSSPE RHTRSVDYME GGDIVRRLRF CRTQWYLRID KRGKVKGTQE MKNNYNIMEI RTVAVGIVAI KGVSEFYLA MNKEGKLYAK KECNEDCNFK ELILENHYNT YASAKWTHNG GEMFVALNQQ GIPVRGKTK KEQKTAHFLP MAIT		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/ml. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.		



**Storage & Stability:**

Lyophilized product is stable at room temperature for shipping purposes. Store as supplied at -20°C to -80°C for up to 1 year.

Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution.

**Avoid repeated freeze-thaw cycles.**

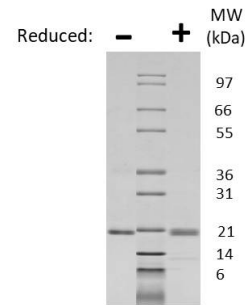
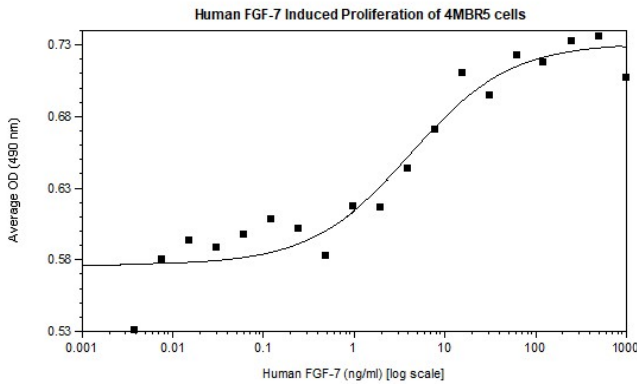
**Human FGF-7 Gel**

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human FGF-7 is predicted to have a MW of 19 kDa.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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