

FGF7

Recombinant Human Fibroblast Growth Factor 7 / KGF-1, Animal Free

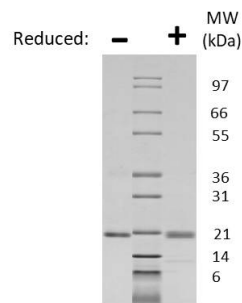
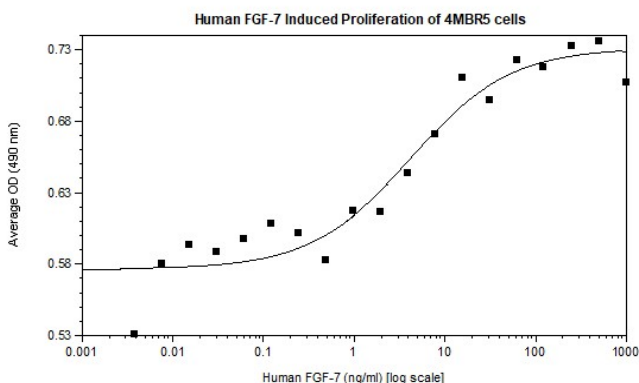
Catalog No.	CRK300A-AF CRK300B-AF CRK300C-AF	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	FGF-7, Keratinocyte growth factor, KGF, Heparin binding growth factor 7, HBGF-7		
Description:	Human KGF-1 also known as Fibroblast growth factor 7 (FGF-7), is a member of the fibroblast growth factor (FGF) family. 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.		
Gene ID:	2252		
UniProt ID:	P21781		
Source:	<i>E. coli</i> Manufactured without Animal-derived products, in an Animal Free facility.		
Molecular Weight:	19 kDa (164 aa)		
Formulation:	Lyophilized from a sterile filtered aqueous solution containing 10 mM sodium phosphate, 100 mM sodium chloride, pH 7.5.		
Purity:	≥ 90% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤1 EU/µg by kinetic LAL analysis		
Biological Activity:	ED ₅₀ ≤60 ng/ml, determined by the dose-dependent proliferation of monkey 4MBr-5 cells.		
Specific Activity:	≥ 1.7 x 10 ⁴ U/mg.		
Amino Acid Sequence:	MCNDMTPEQM ATNVNCSSPE RHTRSYDYME GGDIVRRLRF CRTQWYLRID KRGKVKGTQE MKNNYNIMEI RTVAVGIVAI KGVESEFYLA MNKEGKLYAK KECNEDCNFK ELILENHYNT YASAKWTHNG GEMFVALNQK GIPVRGKKTK KEQKTAHFLP MAIT		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/ml. DO NOT VORTEX. 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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