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## FGF1 Recombinant Human Fibroblast Growth Factor acidic

Catalog No.	CRF000A CRF000B	Quantity:	10 μg 50 μg
	CRF000C		1.0 mg
Alternate Names:	AFGF, ECGF, ECGF-beta, ECGFA, ECGFB, FGF-1, FGF-alpha, FGFA, HBGF-1, HBGF1		
Description:	Recombinant Human FGF acidic is a single, non-glycosylated polypeptide chain containing 141 amino acids. Background: Fibroblast Growth Factor acidic (FGF acidic), also known as FGF-1 and		
	endothelial cell growth factor, is a member of the fibroblast growth factor (FGF) family. Fibroblast growth factor was found in pituitary extracts in 1973 and then tested in a bioassay that caused fibroblasts to proliferate. After further fractionating the extract using acidic and basic pH, two different forms have isolated that named "acidic fibroblast growth factor: (FGF1) and "basic fibroblast growth factor" (FGF2). Human FGF-acidic shares 54% amino acid sequence identity with FGF-basic. In mammalian FGF receptor family has 4 members, FGFR1, FGFR1, FGFR3, and FGFR4, and 1, 2, 3 have 2 sub-types "b", "c". aFGF can bind and activate all 7 different FGFRs. Affinity between aFGF and its receptors can be increased by heparin or heparin sulfate proteoglycan. FGF-acidic plays an important role in the regulation of cell survival, cell division, antiogenesis, cell differentiation and cell migration. FGF-acidic is also involved in a variety of biological processes, including embryonic development, morphogenesis, tissue repair, tumor growth and invasion.		
GenelD:	2246		
Source:	E. coli		
Molecular Weight:	~16 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
Purity:	>95% by SDS-PAGE and HPI	SDS-PAGE and HPLC analyses.	
Endotoxin Level:	<1 EU/µg as determined by L/	/μg as determined by LAL method.	
Biological Activity:	Fully biologically active when of proliferation assay using murin a specific activity of > 2.0 × 10	compared to standard. The ED $_{50}$ as determined by a cell ine balb/c 3T3 cells is less than 0.5 ng/ml, corresponding to 0 <sup>6</sup> IU/mg in the presence of 10 µg/ml of heparin.	
Specific Activity:	>2.0 × 10 <sup>6</sup> IU/mg		
Amino Acid Sequence:	MFNLPPGNYK KPKLLYCSN SVGEVYIKST ETGQYLAMD KKHAEKNWFV GLKKNGSCH	NG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE )T DGLLYGSQTP NEECLFLERL EENHYNTYIS XKR GPRTHYGQKA ILFLPLPVSS D	
Reconstitution:	<b>Centrifuge vial prior to oper</b> containing 0.1% BSA to a con particular application employe	ening. Add sterile distilled water or aqueous buffer procentration of 0.1-1.0 mg/ml. This depends upon the yed. Further dilutions should be made in appropriate	



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buffered solutions.

Storage & Stability:The lyophilized protein is stable at 2-8°C, but should be kept desiccated at -20°C for long<br/>term storage. Reconstituted protein is stable for 1 week at 2-8°C. For maximal stability,<br/>divide the reconstituted protein into working aliquots and store at -20°C to -80°C. Avoid<br/>repeated freeze/thaw cycles.



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



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