

Animal, Bacterial & Viral Free - Low Endotoxin - Ultra Pure - High BioActivity FGF1 Recombinant Human FGF-acidic HQ tagged

Catalog No.	CRF151	Quantity:	25 µg
Alternate Names:	Fibroblast Growth Factor 1, Fibroblast Growth Factor acidic, AFGF, ECGF, ECGF-beta, ECGFA, ECGFB, FGF-alpha, FGFA, HBGF1		
Description:	Recombinant FGF1 contains 141 amino acids and a 16 aa HQ tag for a total length of 157 aa.		
Gene ID:	2246		
Source:	Produced in the endosperm tissue of barley grain (<i>Hordeum vulgare</i>), that exhibits up to 50 times less protease activity than <i>E. coli</i> or mammalian cells. Barley seed is void of any endotoxin, human or animal viral contaminants		
Molecular Weight:	Predicted MW = 18.1 kDa including HQ tag. The recombinant protein migrates with an apparent MW = 25 kDa in SDS-PAGE.		
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.2.		
Purity:	> 95% by SDS-PAGE gel analysis. Purified product carries no pyrogenic or pro-inflammatory contaminants, as assayed with monocyte activation test using Human 10-plex Cytokine Assay measuring IL-6, TNF-alpha and IL-1beta induction.		
Endotoxin Level:	< 0.005 ng per µg of FGF1 (0.05 EU/µg) as measured by turbidimetric kinetic assay. Purified FGF1 carries no pyrogenic or pro-inflammatory contaminants, as assayed with monocyte activation test using Human 10-plex Cytokine Assay measuring IL-6, TNF-alpha and IL-1beta induction.		
Biological Activity:	Determined by dose-dependent effect of human FGF1 on proliferation of BaF3 cells transfected with FGF receptor. The ED ₅₀ for FGF1 is lot specific. A typical lot has the ED ₅₀ in the range of 1.00-1.50 ng/ml. We recommend that the optimal concentration for each specific application be determined by an initial dose-response assay. Recombinant FGF1 shows greater biological activity <i>in vitro</i> by the addition of heparin.		
Specific Activity:	1 x 10 ⁶ units/mg		
Reconstitution:	Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	Store lyophilized protein at -20°C. Reconstituted protein should be used immediately or stored in working aliquots at -20°C. For long term storage, add a carrier protein (0.1% HSA or BSA) as a stabilizer. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

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

