

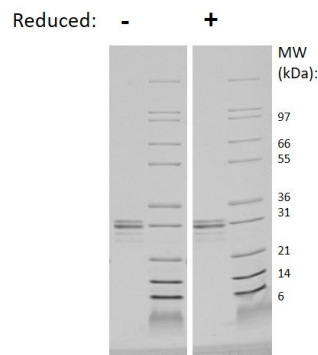
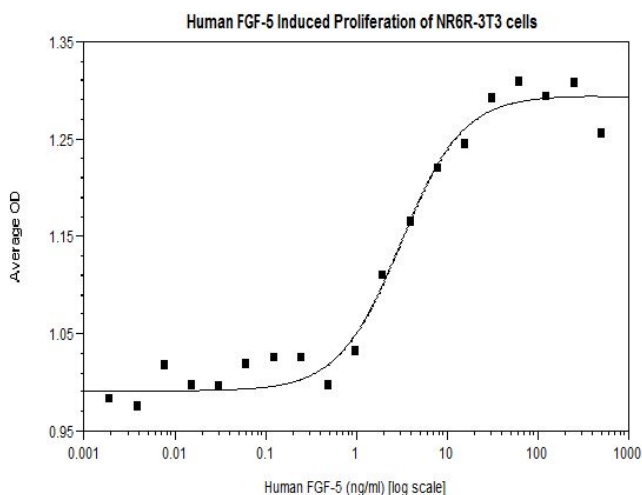
FGF5

Recombinant Human Fibroblast Growth Factor 5, Animal Free

Catalog No.	CRF004A-AF CRF004B-AF CRF004C-AF	Quantity:	10 µg 50 µg 1 mg
Alternate Names:	FGF-5, Heparin-binding growth factor 5, HBGF-5, Smag-82		
Description:	Fibroblast growth factor 5 is a secreted heparin-binding growth factor that binds to FGF receptors 1 and 2 (FGFR1 and FGFR2). FGF-5 is expressed in the mesenchyme, skeletal muscles, central nervous system, and hair follicles and plays an important role in the regulation of cell proliferation and cell differentiation. Required for normal regulation of the hair growth cycle and skeletal muscle development. Functions as an inhibitor of hair elongation by promoting progression from anagen, the growth phase of the hair follicle, into catagen the apoptosis-induced regression phase. Manufactured in an Animal-Free facility, without Animal-Derived materials.		
UniProt ID:	P12034		
Gene ID:	2250		
Source:	<i>E. coli</i>		
Molecular Weight:	Monomer, 27.7 kDa (252 aa)		
Formulation:	Lyophilized from sterile-filtered 10 mM sodium phosphate, 100 mM sodium chloride, pH 7.5		
Purity:	≥ 95%, by reducing and non-reducing SDS-PAGE.		
Endotoxin Level:	≤ 1 EU/µg by kinetic LAL		
Biological Activity:	ED ₅₀ ≤ 10 ng/ml, determined by its ability to induce the proliferation of mouse 3T3 fibroblasts, in the presence of heparin		
Specific Activity:	≥ 1.0 x 10 ⁵ units/mg		
Amino Acid Sequence:	MAWAHGEKRL APKGQPGPAA TDRNPIGSSS RQSSSSAMSS SSASSSPAAS LGSQSGGLEQ SSFQWSPSGR RTGSLYCRVG IGFHLQIYPD GKVNGSHEAN MLSVLEIFAV SQGIVGIRGV FSNKFLAMSK KGKLHASAKF TDDCKFRERF QENSYNTYAS AIHRTEKTGR EWYVALNKRK KAKRGCSPRV KPQHISTHFL PRFKQSEQPE LSFTVTVPK KNPPSPIKSK IPLSAPRKNT NSVKYRLKFR FG		
Reconstitution:	Centrifuge vial prior to opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.		

Storage & Stability:

Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. **Avoid repeated freeze-thaw cycles.**



Human FGF-5 Gel

Figure: 1 ug run under (-) non-reducing and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human FGF-5 is predicted to have a MW of 27.7 kDa.

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



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