FGF5
Recombinant Human Fibroblast Growth Factor 5

Catalog No.	CRF004A	**Quantity:**	10 µg
	CRF004B		50 µg
	CRF004C		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.

UniProt ID: P12034

Gene ID: 2250

Source: *E. coli*

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: ≥ 1.0×10^5 units/mg

Amino Acid Sequence: MAWAHGEKRL APKGQPGPAA TDRNPIGSSS RQSSSSAMSS SSASSSPAAS LGSQGSGLEQ SSFQWSPSGR RTGSLYCRVG IGFHLQIYPD GKVNGSHEAN MLSVLEIFAV SQGIVGIRGV FSNKFLAMSK KGKLHASAKF TDDCKFRERF QENSYNTYAS AIHRTEKTGR EWYVALNKRG KAKRGCSPRV KPQHISTHFL PRFKQSEQPE LSFTVTVPEK 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.

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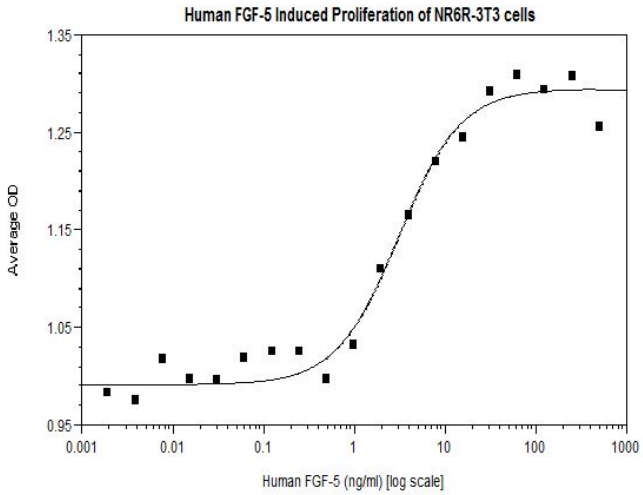
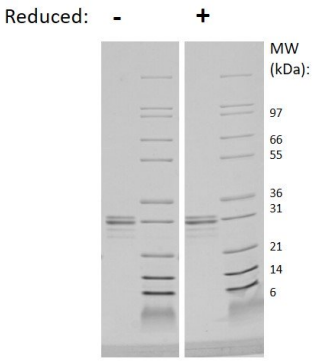
Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. **Avoid repeated freeze-thaw cycles.**





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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