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32-12046: Human Fibroblast Growth Factor-5

Gene :	FGF5
Gene ID :	2250
Uniprot ID :	P12034
Alternative Name :	Heparin-binding growth factor 5, Smag-82, HBGF-5

Description

Source: Genetically modified E.coli.
Predicted MW: Monomer, 27.7 kDa (252 aa)
Fibroblast growth factor 5 (FGF-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 to promote cell differentiation and proliferation. FGF-5 functions as a regulatory factor during hair elongation and skeletal muscle development.

Product Info

Amount :	50 µg / 100 µg
Purification :	Reducing and Non-Reducing SDS PAGE at >= 95%
Content :	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate and 100 mM sodium chloride, pH 7.5 Sterile water at 0.1 mg/mL
Storage condition :	Store at -20°C
Amino Acid :	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

Application Note

Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Biological Activity was determined by 3T3 Proliferation w 1 ug heparin <=10 ng/mL; >= 1.0 x 10^5 units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.

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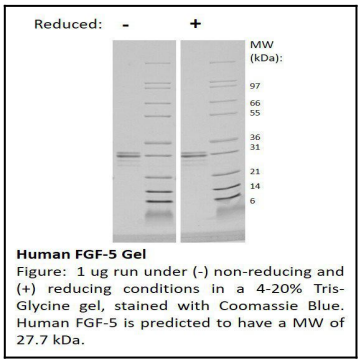

Human FGF-5 Gel
Figure: 1 ug run under (-) non-reducing and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human FGF-5 is predicted to have a MW of 27.7 kDa.