

## 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  $\geq 95\%$   
**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  $-20^{\circ}\text{C}$   
**Amino Acid :** MAWAHGKRL APKGQGPAA TDRNPIGSSS RQSSSSAMSS SSASSSPAAS LGSQGSGLAQ  
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  $\leq 10$  ng/mL;  $\geq 1.0 \times 10^5$  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  $-80^{\circ}\text{C}$  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 vialled to compensate for this loss.

