

## 32-12050: Human Fibroblast Growth Factor-7

**Gene :** FGF7  
**Gene ID :** 2252  
**Uniprot ID :** P21781  
**Alternative Name :** KGF, Heparin-binding growth factor 7, Keratinocyte growth factor

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Monomer, 19 kDa (164 aa)

Fibroblast growth factor 7 (FGF-7), also known as keratinocyte growth factor (KGF), is a potent mitogen that regulates epithelial cell migration and differentiation. FGF-7 is produced by mesenchymal cells and binds in high affinity to a splice variant of FGF receptor 2 (FGFR2-IIIb). The mitogenic activity of FGF-7 acts predominantly on keratinocytes, but not on fibroblast or endothelial cells. FGF-7 expression is upregulated after acute and chronic injury, suggesting that FGF-7 functions during the healing of injured epithelial cells. FGF-7 also induces the formation of the apical ectodermal ridge during limb development.

### Product Info

**Amount :** 10 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 90\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 100 mM sodium chloride, pH 7.5  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** MCNDMTPEQM ATNVNCSSPE RHTRSVDYME GGDIVRRRLF CRTQWYLRID KRGKVKGTQE  
MKNNYNIMEI RTVAVGIVAI KGVESEFYLA MNKEGKLYAK KECNEDCNFK ELILENHNT YASAKWTHNG  
GEMFVALNQQ GIPVRGKTK KEQKTAHFLP MAIT

### Application Note

**Endotoxin:** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Biological Activity was determined by 4MBr-5 cell proliferation at  $\leq 60$  ng/mL;  $\geq 1.7 \times 10^4$  units/mg (typical ED50 is  $< 5$  ng/mL). 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 vial to compensate for this loss.

