

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.

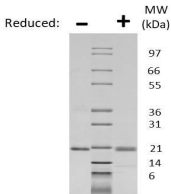
Product Info

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°C
Amino Acid : MCNDMTPEQM ATNVNCSSPE RHTRSYDYME GGDIVRRRLF CRTQWYLRID KRGKVKGQTQE
MKNNYNIMEI RTVAVGIVAI KGVSEFYLA MNKEGKLYAK KECNEDCNFK ELILENHNT
YASAKWTHNG GEMFVALNQK GIPVRGKGTK 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 ≤ 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°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.



Human FGF-7 Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human FGF-7 is predicted to have a MW of 19 kDa.

