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32-12070: Rat Fibroblast Growth Factor-basic

 Gene :
 Fgf2

 Gene ID :
 54250

 Uniprot ID :
 P13109

Alternative Name: Fgf-2, Basic fibroblast growth factor, Heparin-binding growth factor 2

Description

Source: Genetically modified E.coli.

Predicted MW: Monomer, 16.4 kDa (146 aa)

Basic fibroblast growth factor (FGF-basic), also known as FGF-2, is expressed by endothelial cells and is a mediator of angiogenesis. FGF-basic also has cardioprotective functions during heart injury. FGF-basic binds heparin in order to signal through fibroblast growth factor (FGF) receptor tyrosine kinases.

Product Info

Amount : 50 μg / 100 μg

Purification: Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium

Content: phosphate, 50 mM sodium chloride, pH 7.5

Sterile water at 0.1 mg/mL

Storage condition: Store at -20°C

Amino Acid: MPALPEDGGG AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV DGVREKSDPH VKLQLQAEER

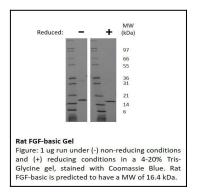
GVVSIKGVCA NRYLAMKEDG RLLASKCVTE ECFFFERLES NNYNTYRSRK YSSWYVALKR

TGQYKLGSKT GPGQKAILFL PMSAKS

Application Note

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

Biological Activity was determined by 3T3 Proliferation. at <=1 ng/mL; $>=1.0 \times 10^6$ units/mg (typical ED50 is <100 pg/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 $-80\text{Å}^{\circ}\text{C}$ 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 vialed to compensate for this loss.





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Rat FGF-Basic Induced Proliferation of NIH 3T3 cells

1.7
1.5
6
0.9
0.7
0.5
0.000
0.001
0.010
0.100
1.000
1.000
Rat FGF-Basic (nglm) [log scale]