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32-12063: Human Fibroblast Growth Factor-acidic (AF)

 Gene :
 FGF1

 Gene ID :
 2246

 Uniprot ID :
 P05230

Alternative Name: Acidic fibroblast growth factor, Endothelial cell growth factor, Heparin-binding growth factor 1, FGFA

Description

Source: Genetically modified E.coli. **Predicted MW:** Monomer, 16 kDa (141 aa)

Acidic fibroblast growth factor (FGF-acidic), also known as FGF-1, is a potent inducer of DNA synthesis, cell proliferation, and has chemotactic activities. FGF-acidic regulates cardiogenesis through protein kinase C signaling. FGF-acidic also functions as an insulin sensitizer and mediates adipose tissue remodeling. High serum levels of FGF-acidic are associated with type 2 diabetes mellitus (T2DM), suggesting a pathogenic role of FGF-acidic during T2DM.

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, 75 mM sodium chloride, pH 7.5

Sterile water at 0.1 mg/mL

Storage condition: Store at -20°C

Amino Acid: MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SVGEVYIKST

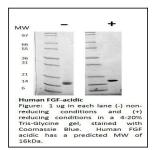
ETGQYLAMDT DGLLYGSQTP NEECLFLERL EENHYNTYIS KKHAEKNWFV GLKKNGSCKR

GPRTHYGQKA ILFLPLPVSS D

Application Note

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

Biological Activity was determined by 3T3 cell proliferation at <=2 ng/mL; >= 5.0 x 10^5 units/mg (typical ED50 is < 1 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 vialed to compensate for this loss.





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Human FGF-acidic Induced Proliferation of NRBR 3T3 Cells

13

125

8

8

115

106

106

Human FGF-acidic Induced Proliferation of NRBR 3T3 Cells

116

117

118

119

119

110

Human FGF-acidic Induced Proliferation of NRBR 3T3 Cells