

32-12069: Mouse Fibroblast Growth Factor-basic

Gene : Fgf2
Gene ID : 14173
Uniprot ID : P15655

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

Description

Source: Genetically modified E.coli.

Predicted MW: Monomer, 16.5 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. The application of FGF-basic is a critical component for human embryonic stem cell culture systems and is necessary for maintaining human embryonic stem cells in an undifferentiated state.

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, 50 mM sodium chloride, pH 7.5
Sterile water at 0.1 mg/mL
Storage condition : Store at -20°C
Amino Acid : MPALPEDGGA AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV DGVREKSDPH VKLQLQAEER GVVSIGVCA
NRYLAMKEDG RLLASKCVTE ECFFFERLES NNYNTYRSRK YSSWYVALKR TGQYKLGSKT GPGQKAILFL
PMSAKS

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 $\leq \text{ED}_{50} \leq 2.5 \text{ ng/mL}$ ($\geq 4.0 \times 10^5 \text{ units/mg}$) (typical ED_{50} is $< 0.5 \text{ ng/mL}$). 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.

