

Active Recombinant Mouse FGF2 Protein

Cat. No. FGF2-83M Lot. No. (See product label)

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | Recombinant Mouse FGF2 Protein without tag was expressed in E. coli. |
| Species | Mouse |
| Source | E.coli |
| Description | 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. |
| Bio-activity | 3T3 cell proliferation, $\leq ED_{50} \leq 2.5$ ng/mL |
| Molecular Mass | Monomer, 16.5 kDa (146 aa) |
| AA Sequence | MPALPEDGGAAFPFGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHVKLQL QAEERGVSISIKGVCANRYLAMKEDGRLLASKCVTEECFFFERLESNNYNTYRSRKY SSWYVALKRTGQYKLGSKTGPQKAILFLPMSAKS |
| Endotoxin | ≤ 1 EUs/ μ g, Kinetic LAL |
| Purity | $\geq 95\%$, Reducing and Non-Reducing SDS PAGE |
| Stability | 12 months from date of receipt when stored at -20 to -80 centigrade as supplied. |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

1 month when stored at 4 centigrade after reconstituting as directed.
 3 months when stored at -20 to -80 centigrade after reconstituting as directed.

Storage

Storage Prior to Reconstitution: -20 centigrade

Storage Buffer

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5

Reconstitution

Sterile water at 0.1 mg/mL

Shipping

Room temperature

Instructions

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 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name

Fgf2 fibroblast growth factor 2 [*Mus musculus* (house mouse)]

Official Symbol

FGF2

Synonyms

FGF2; fibroblast growth factor 2; HBGF-2; basic fibroblast growth factor; heparin-binding growth factor 2; Fgfb; bFGF; Fgf-2;

Gene ID

14173

mRNA Refseq

NM_008006

Protein Refseq

NP_032032

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



UniProt ID

P15655

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA