

Catalog No.: RP01345 **Recombinant**

Species	Gene ID	Swiss Prot
Mouse	14173	P15655

C-His

FGF2;BFGF;FGFB;FGF basic;HBGF-2;FGFb

Source <i>E. coli</i>	Purification ≥ 95 % as determined by SDS- PAGE
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Calculated MW	Observed MW
17.06 kDa	22 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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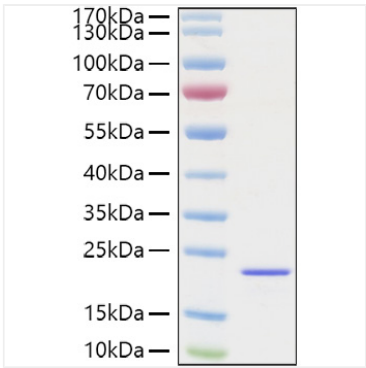
Basic fibroblast growth factor (bFGF), also known as FGF2, is a member of the fibroblast growth factor (FGF) family. It is a highly specific chemotactic and mitogenic factor for many cell types, appears to be involved in remodeling damaged tissue, such as ulcer healing, vascular repair, traumatic brain injury (TBI). bFGF is a critical component of human embryonic stem cell culture medium. In addition, bFGF protein is a heparin-binding cationic protein involved in a variety of pathological conditions including angiogenesis and solid tumour growth. Thus, bFGF is regarded as a target for cancers chemopreventive and therapeutic strategies.

Description: Recombinant Mouse FGF-2/bFGF Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala11-Ser154) of mouse FGF2/FGFB (Accession #NP_032032.1) fused with 6xHis tag at the C-terminus.

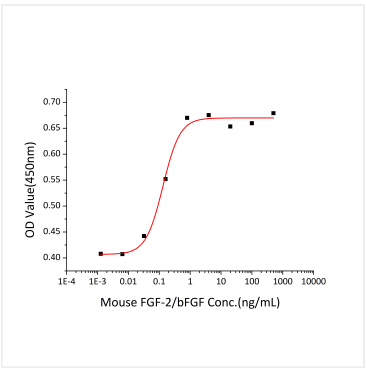
Active Recombinant Mouse FGF2 was added during DP cell culture. The immunofluorescence identification showed that 1 ng/mL FGF2 could maintain the cellular characteristics of DP cells. The red part is the fluorescently labeled PDFGRA antibody, and the blue-cyan part is the DAPI-stained cells.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse FGF-2/bFGF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED₅₀ for this effect is 0.065-0.262 ng/mL, corresponding to a specific activity of 3.82×10⁶~1.54×10⁷ units/mg.