

Recombinant Mouse FGF-2/bFGF Protein

Catalog No.: RP01345 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	14173	P15655

Tags

C-His

Synonyms

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

Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE.

Calculated MW	Observed MW
17.06 kDa	22 kDa

Endotoxin

<0.1EU/μg

Formulation

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

Reconstitution

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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Background

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.

Basic Information

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 6×His tag at the C-terminus.

Bio-Activity

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.

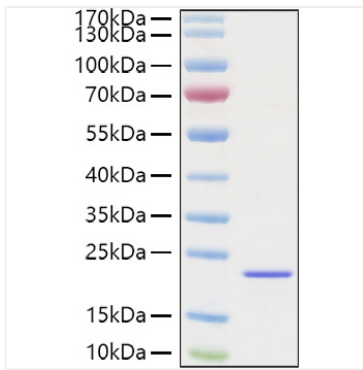
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

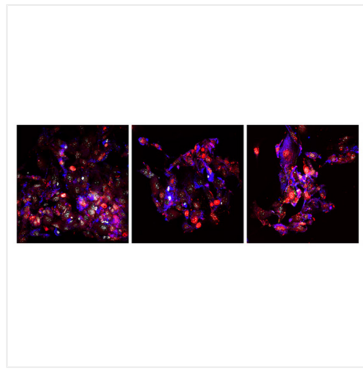
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse FGF-2/bFGF Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 22 kDa.



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