



Recombinant Murine FGF (rmbFGF)

Catalog #124-02

Product Description

Murine basic fibroblast growth factor (bFGF or FGF-2) is a multifunctional protein crucial in mouse cellular biology. Expressed across various tissues, it lacks a typical secretory signal peptide and exists in multiple isoforms through alternative translation start sites. bFGF plays pivotal roles in cell proliferation, migration, differentiation, and angiogenesis, with significant involvement in embryonic stem cell maintenance and tissue development. It's expression can be modulated by factors like stem cell factor and transforming growth factor- β , and it demonstrates important functions in both normal physiological processes and pathological conditions, such as cancer cell progression. The protein's diverse capabilities make it a key molecule in understanding mouse cellular mechanisms and potential therapeutic interventions.

Specifications

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| Synonyms: | bFGF, fibroblast growth factor basic |
| AA Sequence: | SPALPEDGGA AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV DGVREKSDPH VKLQLQAEER GVVSIKGVCA NRYLAMKEDG RLLASKCVTE ECFFFERLES NNYNTYRSRK YSSWYVALKR TGQYKLGSKT GPGQKAILFL PMSAKS |
| Source: | <i>E. coli</i> |
| Purity | > 95% |

Quality Control

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| Endotoxin: | <0.1 ng/ μ g of protein (<1 EU/ μ g) |
| Sterility | No microorganisms |
| Physical Appearance: | Light yellow to white powder |

Formulation

Lyophilized from a 0.2 μ m filtered concentrated (1mg/ml) solution in 1x PBS with dextran as protectant.

Reconstitution

Reconstitute in sterile distilled water or sterile 1x PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Rev. 1

Shipping and Storage

Gel ice. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.

Usage

rmbFGF is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.