



**Recombinant Murine basic Fibroblast Growth Factor  
(rmbFGF)  
Catalog Number: 124-02**

<b>Description</b>	Basic Fibroblast Growth Factor (bFGF) is a member of the FGF family of mitogenic peptides which is comprised of at least 22 proteins showing 35-55% amino acid sequence conservation. Unlike other FGF family members, bFGF and acidic FGF (aFGF) lack signal peptides and are secreted via a different mechanism other than the classical protein secretion pathway. The predicted 17 kDa bFGF isoform can be located in both the cytoplasm and the nucleus. The use of alternative transcription start sites within the gene produces several different isoforms ranging from 21-24kDa proteins.
<b>Synonyms</b>	FGF-2, Fibroblast Growth Factor-basic
<b>AA Sequence</b>	MPALPEDGGAAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHVKLQLQA EERGVVSIKGVCANRYLAMKEDGRLLASKCVTEECFFFERLESNNYNTYRSRKYSSW YVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
<b>Source</b>	<i>Escherichia coli</i>
<b>Molecular Weight</b>	Approximately 16.2 kDa, a single non-glycosylated polypeptide chain containing 146 amino acids.
<b>Purity</b>	>98% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	Fully biologically active. The ED <sub>50</sub> is < 0.1ng/ml, corresponding to a specific activity of 1 x 10 <sup>7</sup> units/mg, as determined by proliferation of BaF3 cells expressing FGF receptors
<b>Physical Appearance</b>	White lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4.
<b>Endotoxin</b>	< 1EU/µg of growth factor as determined by LAL method.
<b>Reconstitution</b>	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
<b>Storage</b>	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.
<b>Usage</b>	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.