

**Recombinant Bovine Basic Fibroblast Growth Factor  
(rbbFGF)  
Catalog Number: 154-02**

<b>Description</b>	Basic Fibroblast Growth Factor (bFGF) is a member of the FGF family of mitogenic peptides which is comprised of at least 23 proteins. FGF signaling factors play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. It was originally named bFGF based upon its chemical properties and to distinguish it from acidic fibroblast growth factor.
<b>Synonyms</b>	FGF-2, Fibroblast Growth Factor basic (FGFb)
<b>AA Sequence</b>	MTMITNSSSV PGDPLESMAS GSITTLPALP EDGGSGAFPP GHFKDPKRLY CKNGGFFLRI HPDGRVDGVR EKSDPHIKLQ LQAEERGVVS IKGVCANRYL AMKEDGRLLA SKCVTDECFE FERLESNNYN TYRSRKYSSW YVALKRTGQY KLGPKTGPGQ KAILFLPMSA KS
<b>Source</b>	<i>Escherichia coli</i>
<b>Molecular Weight</b>	Approximately 18.5 kDa, a single non-glycosylated polypeptide chain containing 172 amino acids
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	Fully biologically active. The ED <sub>50</sub> is < 1.0ng/ml, corresponding to a specific activity of 1.0×10 <sup>6</sup> Units/mg, as determined by the proliferation of BALB/c 3T3 cells.
<b>Physical Appearance</b>	White lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4, containing 4% mannitol.
<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.