

## Overview

<b>Synonyms</b>	Fibroblast Growth Factor-basic, FGF-2, HBGF-2, Prostatropin
<b>Description</b>	<p><b>Fibroblast Growth Factor-basic (FGF-basic)</b>, also known as FGF-2, is a pleiotropic cytokine and one of the prototypic members of the heparin-binding FGF family. Like other FGF family members, FGF-basic has the <sup>2</sup> trefoil structure. <i>In vivo</i>, FGF-basic is produced by a variety of cells, including cardiomyocytes, fibroblasts, and vascular cells. FGF-basic regulates a variety of processes including cell proliferation, differentiation, survival, adhesion, motility, apoptosis, limb formation and wound healing. FGF-basic can be tumorigenic due to its role in angiogenesis and blood vessel remodeling. The angiogenic effects of FGF-basic can produce beneficial cardioprotection during acute heart injury.</p> <p>Recombinant <b>rat Fibroblast Growth Factor-basic (rrFGF-basic)</b> produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 146 amino acids. A fully biologically active molecule, rrFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
<b>Species</b>	Rat
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	ED <sub>50</sub> < 0.25 ng/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 4 × 10 <sup>6</sup> units/mg.
<b>Sequence</b>	<p>GPALPEDGGG AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV            DGVREKSDPH VKLQLQAEER GVVSIKGVCA NRYLAMKEDG            RLLASKCVTE ECVFFERLES NNYNTYRSRK YSSWYVALKR            TGQYKLGSKT GPGQKAILFL PMSAKS</p>

## Properties

<b>Measured Molecular Weight</b>	16.4 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% by SDS-PAGE analysis.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 µg/mL.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>rat Fibroblast Growth Factor-basic (rrFGF-basic)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rrFGF-basic remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only

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