

## Product Datasheet

### Recombinant FGF-basic, Bovine (orb1494865)

<b>Description</b>	Fibroblast Growth Factor-basic (FGF-basic), 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 $\beta$ trefoil structure. In vivo, 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. Recombinant bovine Fibroblast Growth Factor-basic (rbFGF-basic) produced in E.coli is a single non-glycosylated polypeptide chain containing 146 amino acids. A fully biologically active molecule, rbFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.
<b>Endotoxins</b>	< 0.2 EU/ $\mu$ g, determined by LAL method.
<b>Preservatives</b>	Lyophilized after extensive dialysis against PBS.
<b>Form/Appearance</b>	Lyophilized after extensive dialysis against PBS.
<b>Storage</b>	Lyophilized recombinant bovine Fibroblast Growth Factor-basic (rbFGF-basic) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rbFGF-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
<b>Application notes</b>	Reconstituted in ddH <sub>2</sub> O at 100 $\mu$ g/mL.
<b>Protein Sequence</b>	PAL PEDGGSGAFP PGHFKDPKRL YCKNGGFFLR IHPDGRVDGV REKSDPHIKL QLQAEERGVV SIKGVCANRY LAMKEDGRLL ASKCVTDECF FFERLESNNY NTYRSRKYSS WYVALKRTGQ YKLGPKTGPG QKAILFLPMS AKS
<b>Purity</b>	> 95% by SDS-PAGE analysis.

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<b>Source</b>	Escherichia coli.
<b>MW</b>	16.4 kDa, observed by reducing SDS-PAGE.
<b>Expiration Date</b>	6 months from date of receipt.

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