

**Recombinant Rat Basic Fibroblast Growth Factor
(rrbFGF)
Catalog Number: 144-02**

Description	Basic Fibroblast Growth Factor (bFGF) is a member of the FGF family of mitogenic peptides which is comprised of at least 22 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. bFGF is a non-glycosylated heparin binding growth factor that is expressed in the brain, pituitary, kidney, retina, bone, testis, adrenal gland liver, monocytes, epithelial cells and endothelial cells. bFGF signals through FGF receptor 1b, 1c, 2c, 3c and 4.
Synonyms	FGF-2, Fibroblast Growth Factor-basic
AA Sequence	PALPEDGGGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHV KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTEE CFFFERLESN NYNTYRSRKYSSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS
Source	<i>Escherichia coli</i>
Molecular Weight	Approximately 16.3 kDa, a single non-glycosylated polypeptide chain containing 145 amino acids.
Purity	>98% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active. The ED ₅₀ is ≤ 0.2 ng/ml, corresponding to a specific activity of ≥ 5 x 10 ⁶ units/mg, as determined by proliferation of BALB/c 3T3 cells
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4.
Endotoxin	< 1EU/µg of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage	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	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.