



## RECOMBINANT HUMAN FIBROBLAST GROWTH FACTOR-BASIC

---

<b>CATALOG NUMBER:</b>	GF003	<b>QUANTITY:</b>	50 µg
<b>LOT NUMBER:</b>		<b>ALTERNATE NAMES:</b>	bFGF, FGF-2
<b>BACKGROUND:</b>	Fibroblast Growth Factor-basic (bFGF, FGF-2) is a heparin binding growth factor which stimulates the proliferation of a wide variety of cells including mesenchymal, neuroectodermal, endothelial, and human embryonic stem cells. bFGF also exerts a potent angiogenic activity <i>in vivo</i> . Human bFGF is a 17.2 kDa protein containing 154 amino acid residues.		
<b>SOURCE:</b>	<i>E. coli</i>		
<b>PURITY:</b>	Greater than 95% by SDS-PAGE. Endotoxin level is less than 1 EU/µg (0.1ng/µg) of bFGF.		
<b>ACTIVITY:</b>	Human bFGF is fully biologically active when compared to standards. The ED <sub>50</sub> was determined by colorimetric assay using NIH3T3 cells expressing FGF receptors. The ED <sub>50</sub> is defined as the effective concentration of bFGF at which the biological activity is 50% of the maximum response in a cell based assay.		
<b>APPLICATIONS:</b>	For most <i>in vitro</i> applications, bFGF exerts its biological activity in the concentration range of 0.1 to 10.0 ng/mL. Responding cells are (partial list): Endothelial, mesenchymal cells. Human ES cells require concentrations in the range of 4 to 100 ng/mL, depending on the method of culture.		
<b>PRESENTATION:</b>	Lyophilized from a solution of 5mM Tris, pH 7.5 with 150mM NaCl.		
<b>STORAGE/HANDLING:</b>	Maintain the lyophilized material at -20°C until expiration date as stated on the label. After a quick spin, reconstitute in 0.1M phosphate buffer, pH 6.8, to a concentration of 0.1-1.0 mg/mL. Reconstituted bFGF should be stored in working aliquots at -20°C for up to six months. Multiple freeze/thaw cycles will result in significant loss of activity.		

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC  
PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, *in vitro* diagnostic uses, *ex vivo* or *in vivo* therapeutic uses or any type of consumption or application to humans or animals.

©2008 - 2011: Millipore Corporation. All rights reserved. No part of these works may be reproduced in any form without permission in writing.

28820 Single Oak Drive • Temecula, CA 92590  
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502  
www.millipore.com