

Certificate of Analysis

bFGF, Human recombinant

Fibroblast Growth Factor (FGF) was first isolated and purified from bovine pituitary.¹ It has been shown to be mitogenic *in vitro* for a number of cell types including mesenchymal, neuroectodermal and endothelial cells. *In vivo*, FGF can stimulate processes such as angiogenesis and tumor wound healing and may have a role in embryogenesis and development of the vascular, skeletal and nervous systems.^{2,6} The fibroblast growth factor family consists of a family of at least 6 related polypeptides. The best characterized are acidic and basic FGF. Collaborative Biomedical Products' recombinant human basic FGF is a 17 kD protein consisting of 154 amino acids. For recent reviews on fibroblast growth factors and basic FGF specifically, see references 2 and 3.

PRODUCT: Basic Fibroblast Growth Factor (bFGF), Human Recombinant

CATALOG NUMBER: 354060 LOT NUMBER: 0335005

QUANTITY: 10 micrograms per vial

SOURCE: Recombinant (E. coli)

FORMULATION: Lyophilized from Phosphate Buffered Saline, pH 7.2 - 7.4.

SOLUBILIZATION: Reconstitute in dH₂O or serum free tissue culture medium.

PURITY: >95% by 15% SDS-PAGE

RECONSTITUTION AND USE: Recombinant bFGF is mitogenic to saturation over a range of 0.2 - 20 nanograms/ml depending on the cell type. If entire amount of material is not to be used immediately, transfer aliquots to sterile plastic tubes and store at -20°C. It is recommended that solubilized product is used within 1 month. **DO NOT STORE IN FROST-FREE FREEZER. AVOID REPEATED FREEZE THAWS.**

QUALITY CONTROL: Recombinant bFGF has been shown to stimulate thymidine uptake by BaF3 cells (IL-3 dependent murine pro-B cell line) expressing FGF receptors.

Recombinant bFGF is a membrane filtered (0.2 micron) product. It has been tested and found negative for the presence of bacteria, fungi and mycoplasma.

STORAGE: Stable when stored at -20°C. Avoid multiple freeze-thaws. Do not store in frost-free freezer. **KEEP FROZEN.**

EXPIRATION DATE: January 17, 2023

REFERENCES:

1. Gospodarowicz, D., J. Biol. Chem. **250**: 2515, (1975).
2. Klagsbrun, M., Progress in Growth Factor Res, **1**: 207 (1989)
3. Rifkin, B.D., Moscatelli, D., J. Cell Biol., **109**: 1, (1989).
4. Gospodarowicz, D., et.al., J. Cell Phys. **127**: 127, (1986).
5. Prats, H., Kaghad, M., et.al., PNAS, **86**: 1936, (1989).
6. Gonzalez, A., Marino, B., et.al., J. Cell Biol., **110**: 753, (1990).

SAFETY RECOMMENDATION: Handle in accordance with good industrial hygiene and laboratory safety practices.



Quality Assurance

December 27, 2020

Date