



**Recombinant Human Basic Fibroblast Growth Factor Plus
(rhbFGFplus)**

Catalog #104-02p

Description

Basic Fibroblast Growth Factor (bFGF) is a member of the FGF family of mitogenic peptides. bFGF is extremely efficient at inducing DNA synthesis in a variety of cell types from mesoderm and neuroectoderm lineages. Use of native bFGF in cell biology however, is limited by the fact that bFGF rapidly degrades at physiological temperatures. ScienCell's Recombinant Human Basic Fibroblast Growth Factor Plus is engineered for greater stability, which increases cell proliferation compare to native bFGF. The rhbFGFplus shares more than 97% amino acid identity with the 155-amino-acid human bFGF and leaves heparin and the FGF receptor binding sites unmodified.

Specifications

Synonyms:	FGF-2, HBGF-2, Prostatropin, Fibroblast Growth Factor-basic (FGFb)
AA Sequence:	> 97% sequence homology to native human bFGF
Source:	<i>Escherichia coli</i>
Molecular Weight:	17.1 kDa, a single non-glycosylated polypeptide chain containing 155 amino acids
Purity	> 95%
Physical Appearance:	White lyophilized powder.
Endotoxin:	<0.1 ng/μg of protein (<1 EU/μg)
Biological Activity:	Biological activity fully tested using Human umbilical vein endothelial cells (HUVECs).

Formulation

Lyophilized from a 0.2μm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

Reconstitution

Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Shipping and Storage

Gel pack. Upon receipt, 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

rhbFGFplus is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.