

## General Information

### Gene Name Synonym

Basic fibroblast growth factor; Heparin-binding growth factor 2

### Protein Construction

A DNA sequence encoding the mature form of human bFGF (NP\_001997.5) (Pro 143-Ser 288) was expressed, with an additional Met at the N-terminus.

### Organism

Human

### Expression Host

E. coli

## QC Testing

### Activity

Measured in a cell proliferation assay using BALB/c 3T3 mouse embryonic fibroblasts. The ED<sub>50</sub> for this effect is typically 0.02-0.1 ng/ml.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per mg protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Met

### Molecular Mass

The recombinant human bFGF is a disulfide-linked homodimeric protein. The reduced monomer consists of 147 amino acids and has a calculated molecular mass of 16.5 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of bFGF is approximately 17 kDa.

### Formulation

Lyophilized from sterile 20mM Tris, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

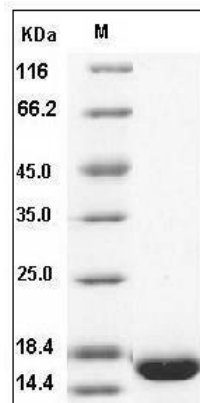
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human bFGF / FGF2 Protein SDS-PAGE