

# Recombinant human FGF basic/FGF-2 protein

Catalog Number: ATGP4117

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

143-288aa

### UniProt No.

P09038

### NCBI Accession No.

NP\_001997.5

### Alternative Names

Fibroblast growth factor 2, BFGF, FGFB, HBGF-2, FGF2, FGF-2

## PRODUCT SPECIFICATION

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### Molecular Weight

16.5 kDa (147aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 50mM Tris-HCl buffer (pH 8.0)

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells in the presence of 10 ug/ml of heparin. The ED50 range  $\leq$  0.2 ng/ml.

### Tag

Non-Tagged

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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# Recombinant human FGF basic/FGF-2 protein

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## Description

Fibroblast growth factor 2 (FGF2) is a member of the FGF family that binds heparin and plays important roles in morphogenic, neurotrophic and angiogenic processes. FGF2 possess diverse biological functions, such as neuron differentiation, embryonic development and differentiation, modulation of angiogenesis, and wound healing. Recombinant human FGF2 was expressed in *E. coli* and purified by conventional chromatography techniques.

## Amino acid Sequence

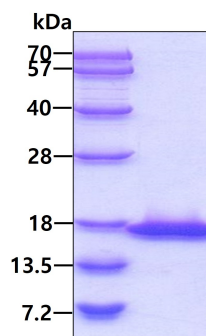
MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAE E RGVVSIGVC ANRYLAMKED  
GRLASKCVT DECFFFERLE SNNYNTYRSR KYTSWYVALK RTGQYKLGSK TGPGQKAILF LPMSAKS

## General References

- Nakayama T., et al. (2007) *Blood*. 109(2):1363-72.
- A E Eriksson., et al. (1991) *PNAS*. 88:3441-3445
- Raines, E.W. et al. (1985) *Methods Enzymol*. 109:749-73

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

### Biological Activity

Human FGF-2 stimulates cell proliferation of the Balb/3T3 mouse embryonic fibroblast cells in the presence of 10 ug/ml of heparin. The ED50 range  $\leq$  to 0.2 ng/ml.

