

# Recombinant human FGF acidic/FGF-1 protein

Catalog Number: ATGP3788

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

16-155aa

### UniProt No.

P05230

### NCBI Accession No.

NP\_000791

### Alternative Names

Acidic Fibroblast Growth Factor, Fibroblast growth factor 1, Acidic fibroblast growth factor, aFGF, Endothelial cell growth factor, ECGF, Heparin-binding growth factor 1, HBGF-1, FGFA, ECGFA, ECGF-beta, FGF-alpha, GLIO703, ECGFB

## PRODUCT SPECIFICATION

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### Molecular Weight

15.9 kDa (141aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.0) containing 100mM NaCl

### Purity

> 95% by SDS-PAGE

### Endotoxin level

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

### Tag

Non-Tagged

### Application

SDS-PAGE

### 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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### Description

Acidic fibroblast growth factor (aFGF) belongs to the fibroblast growth factor family. It is a potent mitogenic agent. aFGF has been detected in large amounts in the brain. Other cells known to express FGF acidic include

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hepatocytes, vascular smooth muscle cells, CNS neurons, skeletal muscle cells, fibroblasts, keratinocytes, endothelial cells, intestinal columnar epithelium cells and pituitary basophils and acidophils. The growth factor acts through activation of specific cell-surface receptors leading to intracellular tyrosine phosphorylation cascade. Recombinant human aFGF was overexpressed in *E. coli* and purified by conventional chromatography.

## Amino acid Sequence

MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SVGEVYIKST ETGQYLAMDT DGLLYGSQTP  
NEECLFLERL EENHYNTYIS KKHAEKNWFV GLKKNNGSCKR GPRTHYGQKA ILFLPLPVSS D

## General References

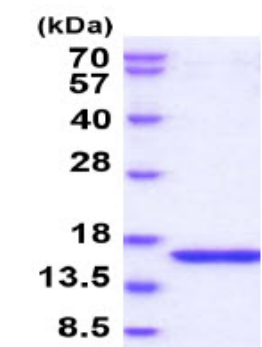
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Mergia A. et al., (1989) *Biochem. Biophys. Res. Commun.* 164, 1121-1129.

Stauber DJ. et al., (2000) *Proc. Natl. Acad. Sci. U.S.A.* 97, 49-54.

## DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

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