

## Human recombinant FGF-1 (Fibroblast growth factor-acidic) protein, AF

Catalog Number: PROTP05230-4

### Overview

Product Name	Human recombinant FGF-1 (Fibroblast growth factor-acidic) protein, AF
Description	Fibroblast Growth Factors-1 (FGF-1) is a Growth Factors of mitogenic peptides which is a 15 kDa protein containing 139 amino acid residues. Fibroblast Growth Factors-1 is secreted by the macrophage which induce endothelial cell proliferation and angiogenesis. During wound injury, fibroblast Growth Factors-1 helps the tissue remodeling. When the fibroblast Growth Factors-1 binds with the FGFR on the cell membrane which is endocytosed by FGFR and induces the cell cycle.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 16.77 kDa. The protein migrates as 18kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to induce 3T3 cells proliferation. The ED<sub>50</sub> for this effect is 1 x 10<sup>7</sup> IU/mg.

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### **Amino Acid Sequence**

MFNLPPGNYKKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAESVGEVYIKSTETGQYLAMDTDGLLYGSQTPNEECLFLERLEENHYNTYISKKHAEKNWVGLKKNNGSCKRGRPTHYGGKAILFLPLPVSSD with polyhistidine tag at the C-terminus.

### **Reconstitution**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

---

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

## Submit a product review to Biocompare.com

---

Submit a review of this product to Biocompare.com to receive a \$20 Amazon giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Human recombinant FGF-1 (Fibroblast growth factor-acidic) protein, AF

For Research Use Only. Not for use in diagnostic procedures.