

Human FGF-1, His Tag, E. coli

Catalog Number	LDG067PHE
Package	5 µg / 20 µg / 100 µg / 1000 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Specifications

Species of Origin

Human

Expression system

Escherichia coli

Affinity Tag

His Tag (C-term)

Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.

Purity

>98% as determined by SDS-PAGE analysis.

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 ED₅₀ for this effect is <0.3 ng/mL. The specific activity of recombinant human FGF-1 is > 1 x 10⁶ IU/mg.

Endotoxin level

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

Form

Lyophilized

Background

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Background

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.

Uniprot ID

#P05230

Synonyms

Acidic fibroblast Growth Factors , aFGF, Endothelial cell Growth Factors , ECGF, Heparin-binding Growth Factors 1 , HBGF-1, Fibroblast Growth Factors 1

Sequence Note

Phe16-Asp155

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image

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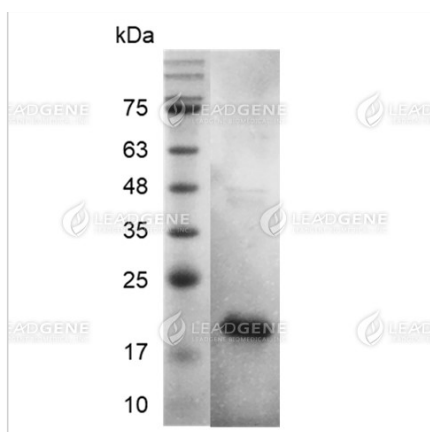
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SDS-PAGE analysis of recombinant human FGF-1.

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