Human FGF-2 (aa 135-288), His Tag, E. coli

Catalog Number	LDG068PHE
Package	5 μg / 20 μg / 100 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 (N-term)

Buffer

Lyophilized from a 0.2 μm filtered solution of PBS containing 0.01% sarkosyl, pH 8.0.

Purity

>98% as determined by SDS-PAGE analysis.

Molecular weight

The protein has a calculated MW of 18.1 kDa.
The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce 3T3 cells proliferation. The ED_{50} for this effect is <1 ng/mL. The specific activity of recombinant human FGF-2 is approximately >5 x 10^5 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

Basic fibroblast Growth Factors (FGF-2, bFGF, FGF-β), a 18 kDa pleiotropic cytokine, plays multiple roles in different cells and tissues. FGF-2 can stimulate smooth muscle cell growth, wound healing, and tissue repair. In addition, FGF-2 has been shown to regulate the generation of neurons and astrocytes from progenitor cells. FGF-2 are also involved in a variety of biological processes, including embryonic development, morphogenesis, tissue repair, tumor growth, and invasion. As a multifunctional cytokine, FGF-2 is first isolated from the pituitary. Later, it was identified from various cell types including cardiac myocytes, cardiac fibroblasts, endothelial cells, and smooth muscle cells.

Synonyms

Fibroblast Growth Factors 2, Basic fibroblast Growth Factors , bFGF, Heparin-binding Growth Factors 2 , HBGF-2

Uniprot ID

#P09038

Sequence Note

Ala135-Ser288

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping

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

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.

Image

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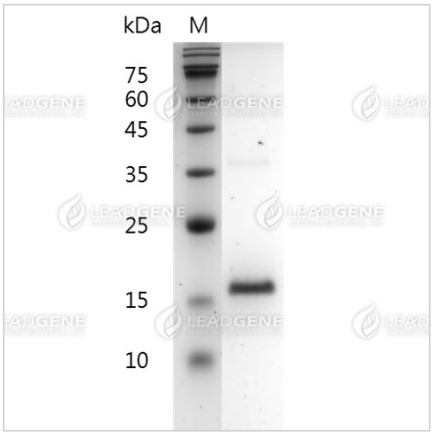

SDS-PAGE analysis of recombinant human FGF-2.

Disclaimer : For Research Use or Further Manufacturing Only.

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