

Recombinant Human FGF-4 Protein

Catalog No.: RP01712 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2249	P08620-1

Tags
NO-tag

Synonyms

HST; KFGF; FGF-4; HST-1; HSTF1; K-FGF;
HBGF-4; HSTF-1; FGF4

Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE.

Endotoxin
< 0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

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Background

FGF (fibroblast growth factor) signalling is known to be required for many aspects of mesoderm formation and patterning during *Xenopus* development and has been implicated in regulating genes required for the specification of both blood and skeletal muscle lineages. Fibroblast growth factor 4 (FGF4) signaling induces differentiation from embryonic stem cells (ESCs) via the phosphorylation of downstream molecules such as mitogen-activated protein kinase/extracellular signal-related kinase (MEK) and extracellular signal-related kinase 1/2 (ERK1/2). Fibroblast Growth Factor 4 (FGF-4) could not only increase the proliferation of bone marrow mesenchymal stem cells (BMSCs), but also induce BMSCs into hepatocyte-like cells in vitro. FGF4 transduced BMSCs contributed to liver regeneration might by the transplanted microenvironment. The FGF4-bFGF BMSCs thus can enhance the survival of the transplanted cells, diminish myocardial fibrosis, promote myocardial angiogenesis, and improve cardiac functions.

Basic Information

Description

Recombinant Human FGF-4 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Gly25-Leu206) of human FGF-4 (Accession #NP_001998.1) fused with no additional amino acid.

Bio-Activity

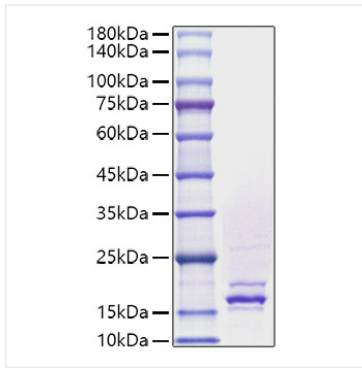
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human FGF-4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20 kDa.