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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
E. coli	> 95% by SDS-PAGE.

Calculated MW	Observed MW
19.76 kDa	20 kDa

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-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.

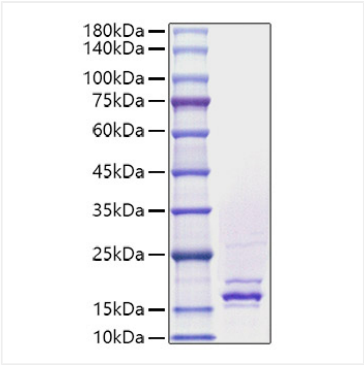
Basic Information

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℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ 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.