Recombinant Human FGF-4 Protein

Catalog No.: RP01712

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Sequence Information

Species
Human

Gene ID
2249

Swiss Prot
P08620-1

Tags
NO-tag

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

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
19.76 kDa

Observed MW
20 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

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.

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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

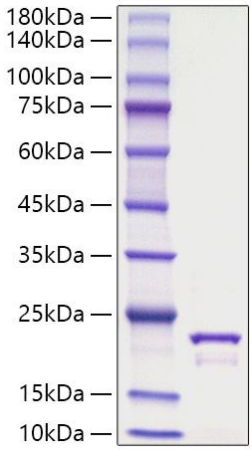
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human FGF-4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.