Recombinant Human FGF-9 Protein

Catalog No.: RP01710

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Sequence Information

Species
Human

Gene ID
2254

Swiss Prot
P31371

Tags
NO-tag

Synonyms
GAF; FGF-9; SYNS3; HBFG-9; HBGF-9;FGF9

Product Information

Source
E. coli

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
23.31 kDa

Observed MW
25-30 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 20mM PB, pH 6.0.

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

Fibroblast growth factor 9 (FGF9) also known as Glia-activating factor or Heparin-binding growth factor 9, is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells.

Basic Information

Description
Recombinant Human FGF-9 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala2-Ser208) of human FGF-9 (Accession #NP_002001.1) fused with no additional amino acid.

Activity
Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED_{50} for this effect is 2.34-9.34 ng/mL, corresponding to a specific activity of 1.07×10^5~4.27×10^5 units/mg.

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℃

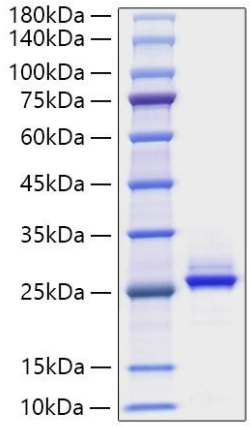
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

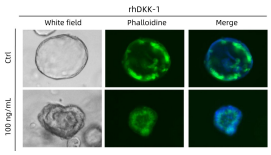
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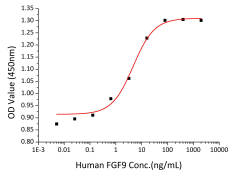
Validation Data



Recombinant Human FGF-9 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Human kidney organoids were cultured with EGF(Cat. RP03287), FGF2(Cat. RP01042), FGF7(Cat. RP01717), FGF9(Cat. RP01710), FGF10(Cat. RP01140), IGF-(Cat. RP00996), NOG(Cat. RP01237), RSPO1(Cat. RP00071), WNT-3a(Cat. RP01618SLQ). And further, DKK-1(RP01343) was used to induce the establishment of cell polarity.



Recombinant Human FGF-9 stimulates cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED_{50} for this effect is 2.34-9.34 ng/mL, corresponding to a specific activity of 1.07×10^5~4.27×10^5 units/mg.

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