

Catalog No.: RP01710 **Recombinant**

Species	Gene ID	Swiss Prot
Human	2254	P31371

NO-tag

GAF; FGF-9; SYNS3; HBFG-9;
HBGE-9:EGF9

Source	Purification
<i>E. coli</i>	≥ 90 % as determined by SDS-PAGE.

Calculated MW	Observed MW
23.31 kDa	25-30 kDa

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

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

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 free-thaw cycles.

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.

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.

Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED₅₀ for this effect is 2.34-9.34 ng/mL, corresponding to a specific activity of 1.07×10⁵~4.27×10⁵ units/mg.

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.

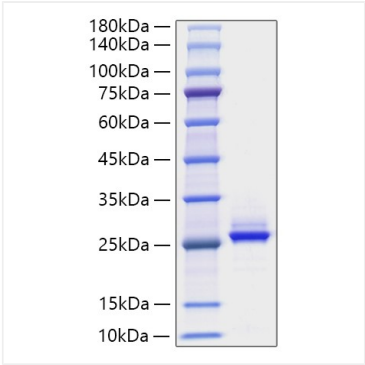
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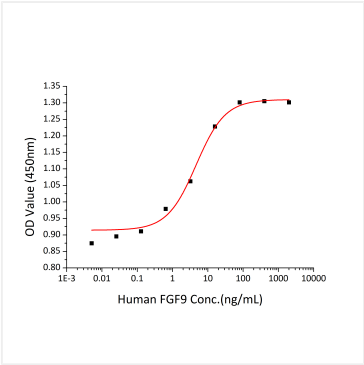
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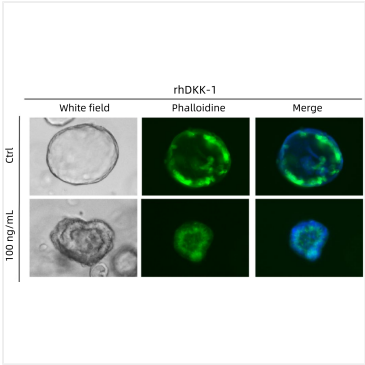
Validation Data



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



Recombinant Human FGF-9 stimulates cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED₅₀ for this effect is 2.34-9.34 ng/mL, corresponding to a specific activity of 1.07×10⁵~4.27×10⁵ units/mg.



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), RSP01(Cat. RP00071), WNT-3a(Cat. RP01618SLQ). And further, DKK-1(RP01343) was used to induce the establishment of cell polarity.