

# Recombinant Human FGF-9 Protein

Catalog No.: RP01710 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	2254	P31371

**Tags**  
NO-tag

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

## Product Information

Source	Purification
<i>E. coli</i>	

Calculated MW	Observed MW
23.31 kDa	25-30 kDa

**Endotoxin**  
<1EU/μg

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

## Contact

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## 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.

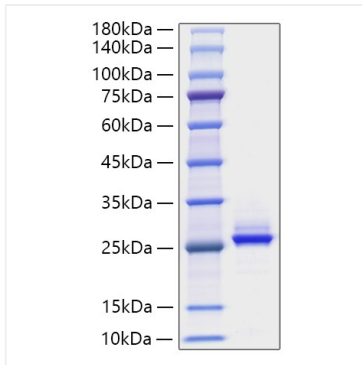
### Bio-Activity

Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED<sub>50</sub> for this effect is 2.34-9.34 ng/mL, corresponding to a specific activity of 1.07×10<sup>5</sup>~4.27×10<sup>5</sup> units/mg.

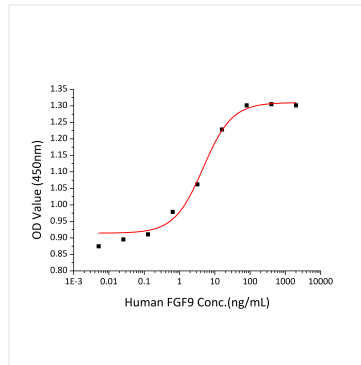
### Storage

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-9 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-30 kDa.



Recombinant Human FGF-9 stimulates cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED<sub>50</sub> for this effect is 2.34-9.34 ng/mL, corresponding to a specific activity of  $1.07 \times 10^5$ – $4.27 \times 10^5$  units/mg.