

## GFH215AF Recombinant Human FGF-9 (Animal-Free)

### Description

Fibroblast Growth Factor 9 (FGF-9) is a mitogen and survival factor for nerve and mesenchymal cells. FGF-9 functions as an autocrine and paracrine factor to support the growth and survival of motor neurons and prostate tissue. FGF-9 expression in the gonad is also necessary for sex determination.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

<b>Length</b>	207 aa
<b>Molecular Weight</b>	23.4 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P31371
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

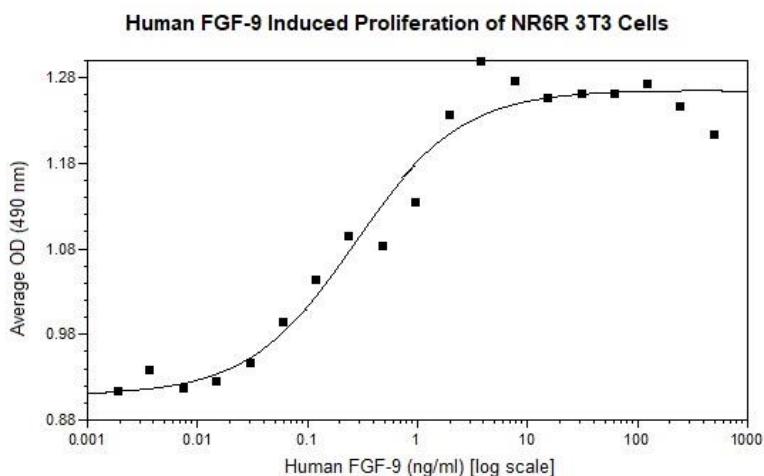
### Specifications

<b>Alternative Names</b>	Fibroblast Growth Factor 9, FGF9, FGF 9, Glia Activating Factor, GAF, GAF2, heparin-binding growth factor 9, HBGF-9, SYNS3
<b>Biological Activity</b>	Human FGF-9 (Animal-Free) is fully biologically active when compared to standard. The activity is determined by the dose-dependent induced proliferation of 3T3 cells and it is typically less than 2 ng/ml. This corresponds to an expected specific activity higher than $5.0 \times 10^5$ units/mg.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 25 mM sodium chloride, 50 mM sodium sulfate, pH 7.5
<b>AA Sequence</b>	MPLGEVGNFYF GVQDAVPFGN VPVLPVDSVP LLSDHLGQSE AGGLPRGPAV TLDLHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIA VGLVSIKRGVD SGLYLGMEK GELYGSEKLT QECVFREQFE ENWYNTYSSN LYKHVDTRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY KDILSQS

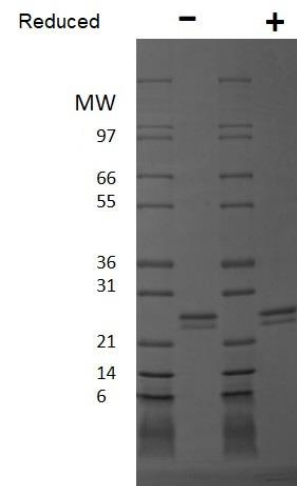
### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Induced proliferation of NR6R 3T3 cells assay for Human FGF-9. Cell proliferation was measured to calculate the ED50, which is as expected less than 2 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of

protein was loaded in each lane. Human FGF-9 has a predicted Mw of 23.4 kDa.