

GFH215 Recombinant Human FGF-9

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.

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

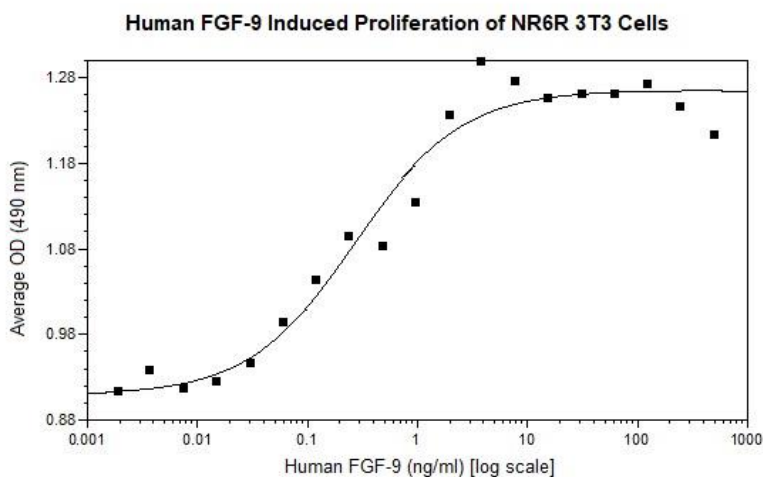
Specifications

Alternative Names	Fibroblast Growth Factor 9, FGF9, FGF 9, Glia Activating Factor, GAF, GAF2, heparin-binding growth factor 9, HBGF-9, SYNS3
Biological Activity	Human FGF-9 is fully biologically active when compared to standard. The activity is determined by the dose-dependent induced proliferation of NR6R 3T3 cells and it is typically less than 2 ng/ml. This corresponds to an expected specific activity higher than 5.0×10^5 units/mg.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	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
AA Sequence	MPLGEVGNFYF GVQDAVPFGN VPVLPVDSFV LLSDDLHGQSE AGGLPRGPAV TDLDDLKLGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIA VGLVSIKRGVD SGLYLGMNEK GELYGSEKLT QECVFREQFE ENWYNTYSSN LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY KDILSQS

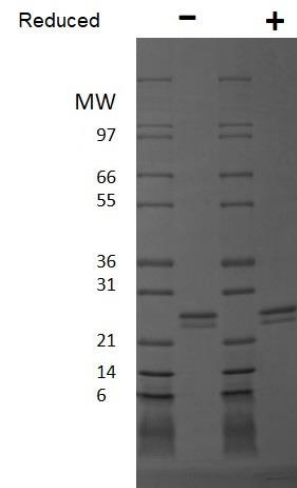
Preparation and Storage

Reconstitution	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.
Stability and Storage	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.