

## Active GMP Recombinant Human FGF protein

Cat. No. FGF9-1658HG Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human FGF9 was produced in E. coli using non-animal reagents in an animal-free facility under cGMP guidelines.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Fibroblast growth factor-9 (FGF-9) is a member of the fibroblast growth factor (FGF) family. All FGF family members are heparin binding growth factors with a core 120 amino acid (a.a.) FGF domain that allows for a common tertiary structure. FGF-9 plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. This protein was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. FGF-9 is a monomer and interacts with FGFR1, FGFR2, FGFR3 and FGFR4. The human FGF-9 shares 98 % a.a. sequence identity with mouse, rat, equine, porcine, and bovine FGF-9.
<b>Form</b>	Lyophilized from a 0.2 µ filtered concentrated solution in PBS, pH 7.4.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The ED50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10 <sup>6</sup> IU/mg.
<b>Molecular Mass</b>	23.3 kDa
<b>AA Sequence</b>	APLGEVGNFY GVQDAVPFGN VPVLPVDSPV LLS DHLGQSE AGGLPRGPAV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TDLDHILKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIA  
 VGLVSIKRGVD SGLYLG MNEK GELYGSEKLT QECVFREQFE ENWYNTYSSN  
 LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY  
 KDILSQS

**Endotoxin** Less than 1 EU/g of rHuFGF-9 as determined by LAL method.

**Purity** > 95 % by SDS-PAGE and HPLC analyses.

**Storage** This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 centigrade to -70 centigrade. Avoid repeated freeze/thaw cycles.

**Reconstitution** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 1 x PBS to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

**Quality Statement** Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.

## GENE INFORMATION

**Gene Name** FGF9 fibroblast growth factor 9 [ Homo sapiens (human) ]

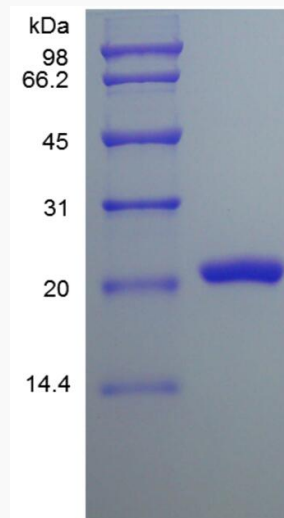
**Official Symbol** FGF9

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Synonyms</b>	GAF; FGF-9; SYNS3; HBFG-9; HBGF-9
<b>Gene ID</b>	2254
<b>mRNA Refseq</b>	NM_002010.2
<b>Protein Refseq</b>	NP_002001.1
<b>MIM</b>	P31371
<b>UniProt ID</b>	P31371



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA