

Active GMP Recombinant Human FGF protein

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

SPECIFICATION

Product Overview	Recombinant Human FGF9 was produced in E. coli using non-animal reagents in an animal-free facility under cGMP guidelines.
Species	Human
Source	E.coli
Description	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.
Form	Lyophilized from a 0.2 µ filtered concentrated solution in PBS, pH 7.4.
Bio-activity	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 $> 2.0 \times 10^6$ IU/mg.
Molecular Mass	23.3 kDa
AA Sequence	APLGEVGNFY GVQDAVPFGN VPVLPVDSPV LLS DHLGQSE AGGLPRGPAV

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TDLHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHRS FGILEFISIA
 VGLVSIRGVD 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 × 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

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

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