

DATASHEET
Version 20181206**FGF-9, Human****Cat. No.:** Z03033-1**Size:** 1.0 mg**Synonyms:** Fibroblast Growth Factor-9, GAF (Glia-activating factor), HBGF-9**Description:**

Fibroblast Growth Factor-9 (FGF-9) is a heparin binding growth factor that belongs to 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. FGF-9 was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. In nervous system, this protein is produced mainly by neurons and may be important for glial cell development.

Recombinant Human Fibroblast Growth Factor-9(rhFGF-9) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 208 amino acids. A fully biologically active molecule, rhFGF-9 has a molecular mass of 23.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Amino Acid Sequence:

00001 MAPLGEVGNV FGVQDAVPFG NVPVLPVDSP VLLSDHLGQS
00041 EAGGLPRGPA VTDLHLKGI LRRRLQYCRT GFHLEIFPNG
00081 TIQGTGRKHS RFGILEFISI AVGLVSIRGV DSGLYGMNE
00121 KGELYGSEKL TQECVFREQF EENWYNTYSS NLYKHVDTR
00161 RYYVALNKDG TPREGTRTKR HQTFTFLPR PVDPAKVPEL
00201 YKDILSQS

Source: *E. coli***Species:** Human**Biological Activity:** ED₅₀ < 2.0 ng/ml, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of >5.0 × 10⁵ units/mg.**Molecular Weight:** 23.4 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O at 100 µg/ml.**Purity:** > 95% by SDS-PAGE and HPLC analyses.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant Human Fibroblast Growth Factor-9(rhFGF-9) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhFGF-9 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.