DATASHEET
Version 20181206

FGF-9, Human

Cat. No.: Z03033-50

Size: 50.0 ug

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:

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00001 MAPLGEVGNY FGVQDAVPFG NVPVLPVDSP VLLSDHLGQS
00041 EAGGLPRGPA VTDLDHLKGI LRRRQLYCRT GFHLEIFPNG
00081 TIQGTRKDHS RFGILEFISI AVGLVSIRGV DSGLYLGMNE
00121 KGELYGSEKL TQECVFREQF EENWYNTYSS NLYKHVDTGR
00161 RYYVALNKDG TPREGTRTKR HQKFTHFLPR PVDPDKVPEL
00201 YKDILSQS
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Source: *E. coli*

Species: Human

Biological Activity: ED_{50} < 2.0 ng/ml , measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of >5.0× 10^5 units/mg.

Molecular Weight: 23.4 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O 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.

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