

Overview

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 <i>E. coli</i> 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.
Accession No	P31371
Species	Human
Source	<i>E. coli</i>
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.
Sequence	MAPLGEVGNV FGVQDAVPPG NVPVLPVDSP VLLSDHLGQS EAGGLPRGPA VTDLDHLKGI LRRRQLYCRT GFHLEIFPNG TIQGRKDHRS RFGILEFISI AVGLVSIRGV DSGLYLGMNE KGELYGSEKL TQECVFREQF EENWYNTYSS NLYKHVDVTGR RYYVALNKDG TPREGTRTKR HQKFTHFLPR PVDPDKVPEL YKDILSQS

Properties

Measured Molecular Weight	23.4 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
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.
Note	For research use only

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