

Active Recombinant Human FGF9 Protein (208 aa)

Cat. No. FGF9-406F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	208
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 2.0 ng/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of $>5.0 \times 10^5$ units/mg.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Molecular Mass	23.4 kDa, observed by reducing SDS-PAGE.
AA Sequence	MAPLGEEVGNVFGVQDAVPFGNVPVLPVDSPVLLSDHLGQSEAGGLPRGPAVTDLD HLKGILRRRQLYCRTGFHLEIFPNGTIQGTRKDHSRFGILEFISIAVGLVSIRGVDSGLY LGMNEKGELYGSEKLTQECVFREQFEENWYNTYSSNLYKHVDTGRRYYVALNKDG TPREGTRTKRHQKFTHFLPRPVD PDKVPELYKDILSQS
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant Human Fibroblast Growth Factor-9(rhFGF-9) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhFGF-9 should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	FGF9 fibroblast growth factor 9 (glia-activating factor) [Homo sapiens]
Official Symbol	FGF9
Synonyms	FGF9; fibroblast growth factor 9 (glia-activating factor); fibroblast growth factor 9; FGF-9; HBGF-9; heparin-binding growth factor 9; GAF; SYNS3; HBFG-9; MGC119914; MGC119915;
Gene ID	2254

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mRNA Refseq	NM_002010
Protein Refseq	NP_002001
MIM	600921
UniProt ID	P31371

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