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**Product Data Sheet**


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Product Name: FGF 9 Human  
 Cat. No.: GP20227  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	GAF (Glia-activating factor); HBGF-9; MGC119914; MGC119915; FGF-9.		
Amino Acid Sequence	APLGEVGNFYF GVQDAVPFGN VPVLPVDSPV LLSDHLLGQSE AGGLPRGPAVTDLDHLKIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIAVGLVLSIRGVD SGLYLG MNEK GELYGSEKLT QECVFREQFE ENWYNTYSSNLYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELYKDILSQS.		
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-9 Human Recombinant sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The sterile protein powder is lyophilized from 1mg/ml solution containing 1xPBS.		

**Introduction**

The human FGF-9 cDNA encodes a 208 amino acid residue protein that contains a single, potential N-linked glycosylation site. The native protein is glycosylated and is efficiently secreted after synthesis, although FGF -9 lacks a typical secretion signal. Rat and mouse FGF-9 show a very high homology to human FGF-9. The transcripts for FGF-9 have been found in brain and in kidney tissue. Fibroblast Growth Factor-9 is a member of 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. FGF9 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. Expression of the mouse homolog of this gene was found to be dependent on Sonic

**Caution: Product has not been fully validated for medical applications. For research use only.**

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hedgehog (Shh) signaling. Mice lacking the homolog gene displayed a male-to-female sex reversal phenotype, which suggested a role in testicular embryogenesis. Fibroblast Growth Factor 9 may have a role in glial cell growth and differentiation during development, gliosis during repair and regeneration of brain tissue after damage, differentiation and survival of neuronal cells, and growth stimulation of glial tumors.

### Biological Activity

The ED50, calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by 3H-thymidine uptake) is <0.5ng/ml, corresponding to a specific activity of 2,000,000 Units/mg.

### Stability

Lyophilized Fibroblast Growth Factor 9 Human Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution FGF-9 should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

### Background

Fibroblast Growth Factor-9 Human Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 207 amino acids and having a molecular mass of 23.4 kDa. The FGF-9 is purified by proprietary chromatographic techniques.

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