Recombinant Human Fibroblast Growth Factor 9 (Glia-activating Factor)

Cat. No. FGF9-336H **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	Sf21 Cells
Description	Fibroblast growth factor 9 (glia-activating factor), also known as FGF9 is a glycosylated neurotrophic polypeptide highly expressed in brain. It is a member of the fibroblast growth factor (FGF) family that 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. This protein 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.
Molecular Weight	The predicted molecular weight of Recombinant Human FGF-9 is Mr 23 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 25-27 kDa.
State Of Matter	Lyophilized.
Purity	>97% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/μg as determined by the LAL method.
Biological Activity	The biological activity of Human FGF-9 was determined by its ability to stimulate

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	proliferation of a mouse fibroblast cell line, Balb/3T3.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer.

GENE INFORMATION

Gene Name	FGF9 fibroblast growth factor 9 (glia-activating factor) [Homo sapiens]
Synonyms	FGF9; fibroblast growth factor 9 (glia-activating factor); GAF; SYNS3; HBFG-9; MGC119914; MGC119915; fibroblast growth factor 9; glia-activating factor; FGF-9; HBGF-9; MGC119914; OTTHUMP00000018804
Gene ID	2254
mRNA Refseq	NM_002010
Protein Refseq	NP_002001
MIM	600921
UniProt ID	P31371
Chromosome Location	13q11-q12
Pathway	MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton; Signaling by FGFR
Function	fibroblast growth factor receptor binding; growth factor activity; heparin binding

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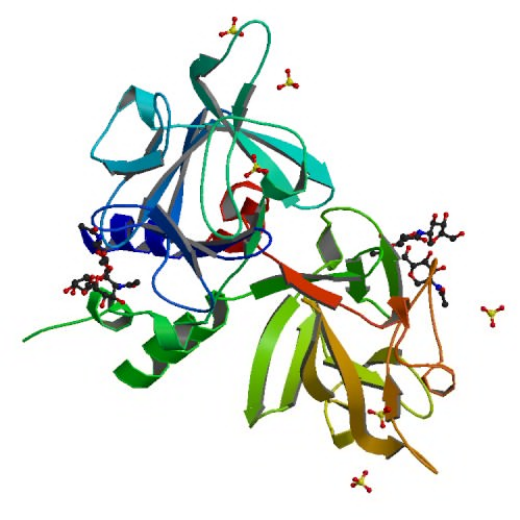
PDB rendering based on 1g82.	

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