

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

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

SPECIFICATION

Product Overview

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/g as determined by the LAL method.

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Biological Activity

The biological activity of Human FGF-9 was determined by its ability to stimulate 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

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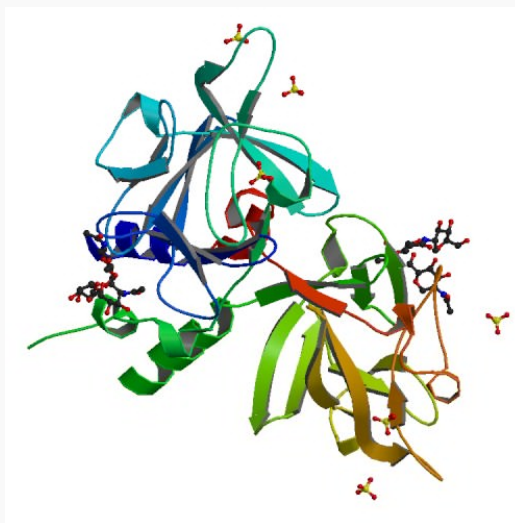
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Function

fibroblast growth factor receptor binding; growth factor activity; heparin binding

PDB rendering based
on 1g82.



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