

Recombinant Human FGF9 protein

Cat. No. FGF9-107H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human FGF9 protein was expressed in Escherichia coli.

Species Human

Source E.coli

ProteinLength 207

Description

Fibroblast growth factor-9 (FGF-9) is a member of the fibroblast growth factor (FGF) family. All FGF family members are heparin binding growth factors with a core 120 amino acid (a.a.) FGF domain that allows for a common tertiary structure. FGF-9 plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. This protein was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. FGF-9 is a monomer and interacts with FGFR1, FGFR2, FGFR3 and FGFR4. The human FGF-9 shares 98 % a.a. sequence identity with mouse, rat, equine, porcine, and bovine FGF-9.

Form Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.

Bio-activity

Fully biologically active when compared to standard. The ED50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^6$ IU/mg.

Molecular Mass

Approximately 23.3 kDa, a single non-glycosylated polypeptide chain containing 207 amino acids.

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AA Sequence	APLGEVGNVYFGVQDAVPFGNVPVLPVDSVLLSDHLGQSEAGGLPRGPAVTDLDHL KGILRRRQLYCRTGFHLEIFPNGTIQGTRKDHSRFGILEFISIAVGLVSIRGVDSGLYL GMNEKGELYGSEKLTQECVFREQFEENWYNTYSSNLYKHVDTGRRYYVALNKDGT PREGTRTKRHQKFTHFLPRPVDPAKVPPELYKDILSQS
Endotoxin	Less than 1 EU/g of rHuFGF-9 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 1 × PBS to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	FGF9
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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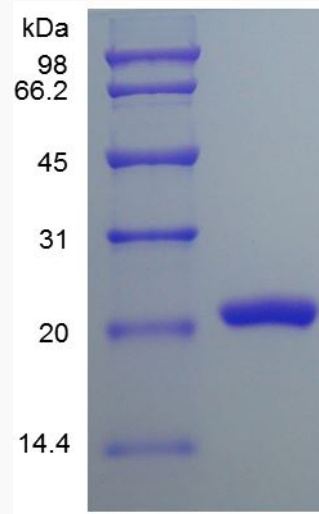
mRNA Refseq NM_002010

Protein Refseq NP_002001

MIM 600921

UniProt ID P31371

SDS-PAGE of FGF9-107H



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