

GMP Recombinant Human FGF9

Cat. No. FGF9-75H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	Fibroblast growth factor 9 (FGF9) belongs to the large FGF family which has at least 23 members. 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 targets glial cells, astrocytes cells and other cells that express the FGFR 1c, 2c, 3b, 3c, and 4.
Form	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	The ED50 determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 5 ng/mL, corresponding to a specific activity of $>2.0 \times 10^5$ IU/mg.
Molecular Mass	Approximately 23.4 kDa, a single non-glycosylated polypeptide chain containing 207 amino acids.
AA Sequence	APLGEVGNFY GVQDAVPFGN VPVLPVDSPV LLS DHLGQSE AGGLPRGPAV TDL DHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIA VGLVSIRGVD SGLYLG MNEK GELYGSEKLT QECVFREQFE ENWYNTYSSN LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELYKDILSQS

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Endotoxin	Less than 1 EU/μg of FGF-9 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analyses.
Usage	This material is offered by Creative Biomart for research, laboratory or further evaluation purposes. FOR RESEARCH USE ONLY. NOT INTENDED FOR ANY ANIMAL OR HUMAN THERAPEUTIC OR DIAGNOSTIC USE.
Storage Buffer	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20°C. Further dilutions should be made in appropriate buffered >

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
Chromosome Location	13q11-q12
Pathway	Downstream signaling of activated FGFR, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR1 ligand binding and activation, organism-specific biosystem; FGFR1c ligand binding and activation, organism-specific biosystem; FGFR2 ligand binding and activation, organism-specific biosystem; FGFR2c ligand binding and activation, organism-specific biosystem; FGFR3 ligand binding and activation, organism-specific biosystem;
Function	fibroblast growth factor receptor binding; growth factor activity; heparin binding; protein tyrosine kinase activity;