

Fibroblast Growth Factor-9 Active Protein | FGF 9 active protein

Recombinant Human Fibroblast Growth Factor-9

CATALOG #
AAA38196

HOST
E Coli

PRODUCT SYNONYMS

Fibroblast Growth Factor-9; Recombinant Human Fibroblast Growth Factor-9; FGF 9 Human; Fibroblast Growth Factor-9 Human Recombinant; GAF (Glia-activating factor); HBGF-9; MGC119914; MGC119915; FGF-9; FGF 9 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by RP-HPLC and SDS-PAGE.
Form/Format	The sterile protein powder is lyophilized from 1mg/ml solution containing 1xPBS. Sterile Filtered white lyophilized powder.
Sequence	APLGEVGNFY GVQDAVPFGN VPVLPVDSPV LLSDDLQSE AGGLPRGPAV TDLHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDSHR FGILEFISIA VGLVSIRGVD SGLYLGMEK GELYGSEKLT QECVFREQFE ENWYNTYSSN LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY KDILSQS
Sequence Length	208
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-9 Human Recombinant sterile 18M-cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ , 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.
Preparation and Storage	Lyophilized Fibroblast Growth Factor 9 Human Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution FGF-9 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for FGF 9 active protein	Description: 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. 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 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.
Product Categories/Family for FGF 9 active protein	Cytokines and Growth Factors; Growth Factors; Fibroblast Growth Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503707
NCBI GeneID	2254
NCBI Accession #	NP_002001.1
NCBI GenBank Nucleotide #	NM_002010.2
UniProt Accession #	P31371; Q3SY32; A8K427
Molecular Weight	23,441 Da
NCBI Official Full Name	fibroblast growth factor 9
NCBI Official Synonym Full Names	fibroblast growth factor 9
NCBI Official Symbol	FGF9
NCBI Official Synonym Symbols	GAF; FGF-9; SYNS3; HBFG-9; HBGF-9
NCBI Protein Information	fibroblast growth factor 9; fibroblast growth factor 9 (glia-activating factor); heparin-binding growth factor 9
UniProt Protein Name	Fibroblast growth factor 9
UniProt Gene Name	FGF9
UniProt Synonym Gene Names	FGF-9; GAF; HBGF-9
UniProt Entry Name	FGF9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-fgf-9-active-protein/fibroblast-growth-factor-9/38196>