

FGF 9 Human

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.

Synonyms: GAF (Glia-activating factor), HBGF-9, MGC119914, MGC119915, FGF-9.

Source: Escherichia coli.

Physical Appearance: Sterile Filtered white lyophilized powder.

Amino Acid Sequence: APLGEVGNFY GVQDAVPFGN VPVLPVDSPV LLSDDLQSE
AGGLPRGPAVTDLDHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR
FGILEFISIAVGLVSIRGVD SGLYLG MNEK GELYGSEKLT QECVFREQFE
ENWYNTYSSNLYKHVD TGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP
VDPDKVPELYKDILSQS.

Purity: Greater than 95.0% as determined by RP-HPLC and SDS-PAGE.

Formulation:

The sterile protein powder is lyophilized from 1mg/ml solution containing 1x PBS

Stability:

Lyophilized Fibroblast Growth Factor 9 Human Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-9 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-9 Human Recombinant sterile 18M-cm H₂O not less than 100

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

www.neobiolab.com

info@neobiolab.com

888.754.5670, +1 617.500.7103 United States

0800.088.5164, +44 020.8123.1558 United Kingdom

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.



Catalog #:CYP5-422

Biological Activity:

The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is <0.5 ng/ml, corresponding to a specific activity of 2,000,000IU/mg.

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