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FGF 9 Rat

Fibroblast Growth Factor-9 Rat Recombinant
GRF0084

Product Overview

Name	FGF 9 Rat

Description

Fibroblast Growth Factor-9 Rat Recombinant

Accession (Primary)	P36364

Synonyms

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

Introduction

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The FGF-9 was lyophilized from a concentrated (1mg/ml) sterile solution containing 10mM NaP, pH-7.5 &, 75mM Ammonium Sulfate.

Stability

Lyophilized Rat Fibroblast Growth Factor-9 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF9 Rat Recombinant 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.

Purity

Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

MPLGEVGSYFG VQDAVPFGNV PVLPVDSPVL LNDHLGQSEA GGLPRGPAVT DLDHLKGILR RRQLYCRTGF HLEIFPNGTI QGTRKDHSRF GILEFISIAV GLVSIRGVDS GLYLGMNEKG ELYGSEKLTQ ECVFREQFEE NWYNTYSSNL YKHVDTGRRY YVALNKDGTP REGTRTKRHQ KFTHFLPRPV DPDKVPELYK DILSQS.

Biological Activity