



Recombinant Rat FGF-9
(Fibroblast Growth Factor-9)

Catalog Number: 300-27
Accession Number: P36364

Specifications and Uses:

Alternate Names: Glial activating factor, GAF, Heparin-binding growth factor-9, HBGF-9

Description:

Fibroblast Growth Factor-9 (FGF-9) is a steroid-regulated mitogen and survival factor for nerve and mesenchymal cells. FGF-9 is an autocrine/paracrine growth factor considered to be important for the growth and survival of motorneurons and prostate tissue. Recombinant rat FGF-9 is a non-glycosylated protein, containing 205 amino acids, with a molecular weight of 23.3 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant rat FGF-9 is lyophilized from a sterile solution (1mg/mL) containing 10 mM Na₂PO₄, pH 7.5 and 75 mM (NH₄)₂SO₄.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 95%) determined by:

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity is determined by the dose-dependent proliferation of 3T3 cells and is typically less than 1 ng/mL.

AA Sequence:

PLGEVGSYFG VQDAVPFGNV PVLVVDSPVL LNDHLGQSEA GGLPRGPAVT DLDHLKGILR RRQLYCRTGF
HLEIFPNGTI QGTRKDHSRF GILEFISIAV GLVSIRGVDS GLYLG MNEKG ELYGSEKLTQ ECVFREQFEE
NWyNTYSSNL YKHVDTGRRY YVALNKDGTP REGTRTKRHQ KFTHFLPRPV DPDKVPELYK DILSQS

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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