

Product: **Recombinant Rat FGF-9**
Cat #: 300-500P
 Powder

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 motoneurons and prostate tissue. Alternate names: Glial activating factor, GAF, Heparin-binding growth factor-9, HBGF-9
MW	Non-glycosylated protein, containing 207 amino acids, with a molecular weight of 23.3 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant rat FGF-9 is lyophilized from a sterile solution (1mg/mL) containing 10 mM Na ₂ PO ₄ , pH 7.5 and 75 mM (NH ₄) ₂ SO ₄ .
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.
Stability	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.
Biological Activity	The activity is determined by the dose-dependent proliferation of 3T3 cells and is typically less than 1 ng/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.
AA Sequence	MPLGEVGSYFG VQDAVPFGNV PVLVDPSPVL LNDHLGQSEA GGLPRGPAVT DLHLKGILR RRQLYCRTGF HLEIFPNGTI QGTRKDHSRF GILEFISIAV GLVSIRGVDS GLYLG MNEKG ELYGSEKLTQ ECVFREQFEE NWYNTYSSNL YKHVDTGRRY YVALNKDGP REGTRTKRHQ KFTHFLRPV DPKVPELYK DILSQS

Purity greater than 95% determined by Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

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