

# Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

FGF9 is a member of the Fibroblast Growth Factor family of proteins. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF9 targets glial cells, astrocytes and other cells that express FGFR 1c, 2c, 3b, 3c and 4. FGF9 is a potent mitogen for both prostatic epithelial and stromal cells in culture and is an abundant, secreted growth factor that can act as both a paracrine mitogen for epithelial cells and as an autocrine mitogen for stromal cells. There is a 99% amino acid sequence homology between human, mouse and rat FGF9 proteins. In the FGF family, FGF9 is most closely associated with FGF16 and FGF20.

<b>Catalog Number</b>	<b>1340-09</b>
<b>Product Name</b>	<b>FGF9, Murine</b> Recombinant Murine Fibroblast Growth Factor 9 FGF9 GAF (Glia activating factor)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~23.3 kDa (207 amino acids)
<b>Sequence</b>	MPLGEVGSYF GVQDAVPFGN VPVLPVDSPV LLNDHLGQSE AGGLPRGPAV TLDLHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIA VGLVSIRGVD SGLYLGMNEK GELYGSEKLT QECVFREQFE ENWYNTYSSN LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY KDILSQS
<b>Accession Number</b>	<a href="#">P54130</a>
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of >2.0 × 10 <sup>6</sup> IU/mg.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.