

Growth Factor Data Sheet

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FGF18 is a member of the Fibroblast Growth Factor family of proteins. FGF18 has been shown *in vitro* to induce neurite outgrowth in PC12 cells. Studies of the similar proteins in mouse and chick suggest that this protein is a pleiotropic growth factor that stimulates proliferation in tissues such as the liver and small intestine. FGF18 acts as a trophic factor for elastic chondrocytes *in vivo* and articular chondrocytes cultured *in vitro* and plays an autocrine role in normal articular cartilage repair. FGF18 $-/-$ mice have decreased expression of osteogenic markers and delayed long-bone ossification. FGF18 has been shown *in vitro* that this protein is able to induce neurite outgrowth in PC12 cells. It is most closely related to FGF8 and FGF17.

Catalog Number	1340-18
Product Name	FGF18, Murine Recombinant Murine Fibroblast Growth Factor 18 FGF-18
Source	<i>Escherichia coli</i>
MW	~21.0 kDa (180 amino acid)
Sequence	EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRISARG EDGDKYAQLL VETDTFGSQV RIKGKETEFY LCMNRKGKLV GKPDGTSKEC VFIEKVLENN YTALMSAKYS GWYVGFTKKG RPRKGPKTRE NQQDVHFMKR YPKGQAE LQK PFKYTTVTKR SRRIRPHTPG
Accession Number	O89101
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ 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 $> 2.0 \times 10^6$ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	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.
Reconstitution	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.