

## 32-1190: rFGF-18 Recombinant Protein

**Alternative Name :** Fibroblast growth factor 18,FGF-18,zFGF5,Fgf18,D130055P09Rik.

### Description

Source : Escherichia Coli. FGF18 Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 180 amino acids and having a molecular mass of 21.0kDa.The FGF 18 Rat is purified by proprietary chromatographic techniques. Fibroblast growth factor 18 (FGF18) is a member of the large FGF family which has at least 23 members. FGF18 is a heparin binding growth factor with a core 120 amino acid FGF domain which allows for a common tertiary structure. FGFs are expressed in the course of the embryonic development and in restricted adult tissues. FGF-18 is an indispensable regulator of long bone and calvarial development. FGF-18 signals via FGFR 1c, 2c, 3c, and 4.

### Product Info

<b>Amount :</b>	25 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE and HPLC analyses.
<b>Content :</b>	Lyophilized from a 0.2um filtered concentrated solution in PBS, pH 7.4.
<b>Storage condition :</b>	Lyophilized FGF 18 Rat although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF 18 Rat should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRISARG EDGDKYAQLL VETDTFGSQV RIKKGTEFYL LCMNRKGLV GKPDGTSKEC VFIEKVLENN YTALMSAKYS GWYVGFTKKG RPRKGPKTRE NQQDVHFMKR YPKGQTELQK PFKYTTVTKR SRRIRPTHPG

### Application Note

It is recommended to reconstitute the lyophilized FGF 18 in sterile 18M-cm H2O not less than 100Åµg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF-receptors is < 0.5ng/ml, corresponding to a specific activity of > 2.0Åµg/1,000,000 units/mg.