

32-1189: mFGF-18 Recombinant Protein

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

Description

Source : Escherichia Coli. FGF-18 Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 180 amino acids and having a molecular mass of 21kDa. The FGF-18 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

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| Amount : | 25 µg |
| Purification : | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. |
| Content : | FGF-18 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. |
| Storage condition : | Lyophilized FGF-18 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-18 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| Amino Acid : | EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRISARG EDGDKYAQLL VETDTFGSQV RIKGKETEFY LCMNRKGKLV GKPDGTSKEC VFIEKVLENN YTALMSAKYS GWYVGFTKKG RPRKGPKTRE NQQDVHFMKR YPKGQALQK 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/106 units/mg.

