

# Recombinant Mouse Fibroblast Growth Factor-18 (rm FGF-18)

**Synonyms:** HBGF-8, AIGF.

**Introduction:** 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.

**Description:** rm Fibroblast Growth Factor-18 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 180 amino acids and having a molecular mass of 21 kDa. The rm FGF-18 is purified by chromatographic techniques.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rm FGF-18 in sterile H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rm FGF-18, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm 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.

**Purity:** Greater than 95.0% as determined by RP-HPLC and by SDS-PAGE.

**Amino Acid Sequence:** EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRISARG EDGDKYAQLL VETDTFGSQV RIKGKETEFY LCMNRKGKLV GKPDGTSKEC VFIEKVLENN YTALMSAKYS GWYVGFTKKG RPRKGPKTRE NQQDVHFMKR YPKGQALQK PFKYTTVTKR SRRIRPTHPG.

**Biological Activity:** Determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF-receptors the ED50 is ≤ 0.5ng/ml, corresponding to a specific activity of ≥ 2.0 ×10<sup>6</sup> units/mg.

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<i>small</i>	5 µg	Cat.N°	12344970
<i>medium</i>	25 µg	Cat.N°	12344974

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