



Overview

Synonyms Fibroblast growth factor 18, FGF-18, zFGF5, Fgf18, D130055P09Rik.

> Fibroblast Growth Factor 18 (FGF-18) is a pleiotropic cytokine belonging to the heparinbinding FGF family, which has 23 different members. Structurally, FGF-18 is closely related to FGF-8 and FGF-17. Like other FGFs, FGF-18 can bind to different FGF receptors in vivo. FGF-18 is expressed in various tissues and has multiple functions: during long bone growth, FGF-18 is expressed in perichondrium and developing joints, and regulates bone formation by inhibiting chondrocyte proliferation and differentiation;

FGF-18 knock-out mice survive embryonic development, but exhibit skeletal abnormalities Description and die in the early neonatal period. FGF-18 also induces ectopic cartilage formation in

the lung, and alters the morphology of the pulmonary mesenchyma.

Recombinant mouse Fibroblast Growth Factor 18 (rmFGF-18) produced in E. coli is a

single non-glycosylated polypeptide chain containing of 172 amino acids. A fully biologically active molecule, rmFGF-18 has a molecular mass of 20.1 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.

Accession No O89101 Species Mouse Source E. coli

ED₅₀ < 0.5 μg/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to **Biological Activity**

a specific activity of $> 2 \times 10^3$ units/mg.

EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRISARG EDGDKYAQLL VETDTFGSQV RIKGKETEFY LCMNRKGKLV GKPDGTSKEC VFIEKVLENN YTALMSAKYS GWYVGFTKKG RPRKGPKTRE NQQDVHFMKR YPKGQAELQK

PFKYTTVTKR SR

Properties

Sequence

Measured Molecular 20.1 kDa, observed by non-reducing SDS-PAGE.

Weight

Purity > 95% by SDS-PAGE and HPLC analyses. Formulation Lyophilized after extensive dialysis against PBS.

Reconstitution Reconstituted in ddH₂O at 100 µg/mL. **Endotoxin Level** < 0.2 EU/µg, determined by LAL method.

Lyophilized recombinant mouse Fibroblast Growth Factor 18 (rmFGF-18) remains Storage

stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution,

rmFGF-18 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.

Note For research use only

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