



## Fibroblast Growth Factor-18, mouse recombinant (rmFGF18)

**Catalog No:** 97442  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Fibroblast growth factor 18, FGF-18, zFGF5, Fgf18, D130055P09Rik

### Background

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

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 21 kDa. FGF-18 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

FGF-18 protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

### Solubility

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

### Stability

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.

### Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRIISARG EDGDKYAQLL VETDTFGSQV RIKGKETEFY  
LCMNRKGKLV GKPDGTSKEC VFIEKVLENN YTALMSAKYS GWYVGFTKKG RPRKGPKTRE NQQDVHFMKR YPKGQAELOK  
PFKYTTVTKR SRRIRPTHPG

### Activity

The ED<sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF-receptors is <0.5 ng/ml, corresponding to a specific activity of >2.0 × 10<sup>6</sup> units/mg.

## CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • [info@biomol.de](mailto:info@biomol.de) • [www.biomol.de](http://www.biomol.de)

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51



#### Usage

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BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • [info@biomol.de](mailto:info@biomol.de) • [www.biomol.de](http://www.biomol.de)  
Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51