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Fibroblast Growth Factor-18, rat recombinant (rrFGF18)

Catalog No: 97596
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 rat recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 180 amino acids and having a molecular mass of 21.0 kDa. FGF 18 rat is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2um filtered concentrated solution in PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized FGF 18 in sterile 18 MΩ-cm H₂O 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 rat should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE and HPLC analyses.

Amino Acid Sequence

EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRI SARG EDGDKYAQLL VETDTFGSQV RIKGKETEFY
LCMNRKGLV GKPDGTSKEC VFIEKVLENN YTALMSAKYS GWYVGFTKKG RPRKGPKTRE NQQDVHFMKR YPKGQTELQK
PFKYTTVTKR SRRIRPTHPG

Activity

The ED50 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 × 1,000,000 units/mg.



Usage

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