Active Recombinant Mouse Fgf18 Protein (172 aa)

Cat. No. Fgf18-417F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	E.coli
ProteinLength	172
Description	Fibroblast Growth Factor 18 (FGF-18) is a pleiotropic cytokine belonging to the heparin-binding 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 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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	ED50 < 0.5 μg/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 2 × 10^3 units/mg.
Molecular Mass	20.1 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	EENVDFRIHVENQTRARDDVSRKQLRLYQLYSRTSGKHIQVLGRRISARGEDGDKY AQLLVETDTFGSQVRIKGKETEFYLCMNRKGKLVGKPDGTSKECVFIEKVLENNYTA LMSAKYSGWYVGFTKKGRPRKGPKTRENQQDVHFMKRYPKGQAELQKPFKYTTVT KRSR
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant mouse Fibroblast Growth Factor 18 (rmFGF-18) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmFGF-18 remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O at 100 μg/mL.

GENE INFORMATION

Gene Name	Fgf18 fibroblast growth factor 18 [Mus musculus]
Official Symbol	Fgf18
Synonyms	FGF18; fibroblast growth factor 18; zFGF5; FGF-18; D130055P09Rik;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Gene ID	14172
mRNA Refseq	NM_008005
Protein Refseq	NP_032031
UniProt ID	O89101

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA