Active Recombinant Human FGF18 Protein (174 aa)

Cat. No. FGF18-418F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Fibroblast Growth Factor-18 (rhFGF-18) produced in E. coli is a single non-glycosylated polypeptide chain containing 174 amino acids. A fully biologically active molecule, rhFGF-18 has a molecular mass of 20.3 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	174
Description	Fibroblast Growth Factor-18 (FGF-18) is a heparin-binding growth factor that is a member of the FGF family. FGF-18 signals through FGFR 1c, 2c, 3c, and 4. FGF-18 plays an important role in the regulation of cell proliferation, cell differentiation and cell migration. FGF-18 is required for normal ossification and bone development. It can also stimulate hepatic and intestinal proliferation.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 10 ng/mL, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 1.0 × 10^5units/mg.
Molecular Mass	20.3 kDa, observed by reducing SDS-PAGE.
AA Sequence	MAEENVDFRIHVENQTRARDDVSRKQLRLYQLYSRTSGKHIQVLGRRISARGEDGD

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	KYAQLLVETDTFGSQVRIKGKETEFYLCMNRKGKLVGKPDGTSKECVFIEKVLENNY TALMSAKYSGWYVGFTKKGRPRKGPKTRENQQDVHFMKRYPKGQPELQKPFKYTT VTKRSR
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant human Fibroblast Growth Factor-18 (rhFGF-18) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhFGF-18 should be 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 [Homo sapiens]
Official Symbol	FGF18
Synonyms	FGF18; fibroblast growth factor 18; FGF 18; ZFGF5; FGF-18;
Gene ID	8817
mRNA Refseq	NM_003862
Protein Refseq	NP_003853

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MIM	603726
UniProt ID	O76093

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