



Recombinant Human FGF-18

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-025S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	8817
Synonyms:	FGF18; ZFGF5; FGF-18

FGF-18 is a heparin binding growth factor that belongs to the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-18 is an essential regulator of long bone and calvarial development. FGF-18 signals through FGFR 1c, 2c, 3c, and 4. Recombinant E.coli derived human FGF-18 is a 20.1 kDa protein consisting of 173 amino acid residues, resulting from c-terminal truncation of the full length protein.

Sequence

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AEENVDFRIH VENQTRARDD VSRKQLRLYQ LYSRTSGKHI  
QVLGRRISAR GEDGDKYAQL LVETDTFGSQ VRIKGGKTEF  
YLCMNRKGL VGKPDGTSKE CVFIEKVLN NYTALMSAKY  
SGWYVGFTHK GRPRKGPTR ENQDVFHFMK RYPKGGPELO  
KPFKYTTVTK RSR
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Database References

Protein RefSeq:	NP_003853.1
Uniprot ID:	O76093
mRNA RefSeq:	NM_003862

Product Specifications

Expressed in	E. coli
Purity	> 95% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	173
MW:	20.1 kDa

Biological Activity: The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF-receptors is ≤ 0.5 ng/ml ($\geq 2 \times 10^6$ units/mg).



AVOID REPEATED FREEZE AND THAW CYCLES!