

Fgf18

Recombinant Rat Fibroblast Growth Factor-18

Catalog No.	CS503A CS503B CS503C	Quantity:	5 µg 25 µg 1 mg
Alternate Names:	FGF-18		
Description:	<p>FGF-18 is encoded by the FGF18 gene in rats. By phylogenetic analysis and gene location analysis, FGF-18 belongs to the FGF-8 subfamily, which has three members: FGF-8, FGF-17 and FGF-18. Using FGF knockout mice models, members of this subfamily were tested and found to have crucial roles in embryological development. FGF-18^{-/-} mice have decreased expression of osteogenic markers and delayed long-bone ossification. FGF-18 also plays a significant role in lung development and has an anabolic effect on cartilage formation. Additionally, it has been shown <i>in vitro</i> that this protein is able to induce neurite outgrowth in PC12 cells. Rat FGF-18 shares 98% amino acid sequence identity with human.</p> <p>Recombinant Rat FGF-18 is a single non-glycosylated polypeptide chain containing 180 amino acids.</p>		
Gene ID:	29369		
Source:	<i>E. coli</i>		
Molecular Weight:	21.0 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, + 500 mM NaCl.		
Purity:	>95 % by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml.		
Specific Activity:	> 2.0 x 10 ⁶ IU/mg.		
Amino Acid Sequence:	EENVDFRIHV ENQTRARDDV SRKQLRLYQL YSRTSGKHIQ VLGRRISARG EDGDKYAQLL VETDTFGSQV RIKGKETEFY LCMNRKGKLV GKPDGTSKEC VFIEKVLENN YTALMSAKYS GWYVGFTKKG RPRKGPKTRE NQQDVHFMKR YPKGQTELQK PFKYTTVTKR SRRIRPTHGP		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

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