

Fgf10

Recombinant Mouse Fibroblast Growth Factor-10

Catalog No.	CS490A CS490B CS490C	Quantity:	5 µg 25 µg 1 mg
Alternate Names:	Keratinocyte growth factor 2		
Description:	<p>FGF-10 was originally identified from rat embryos by homology-based polymerase chain reaction. Mouse FGF-10 shares approximately 92% amino acid sequence identity with human FGF-10. Among the FGF family members, FGF-10 is most closely related to FGF-7. The expression of FGF-10 transcripts has been shown to be most abundant in the embryo and adult lung. Recombinant FGF-10 preparations have been shown to be mitogenic for epithelial and epidermal cells but not fibroblasts. Based on its <i>in vitro</i> biological activities and <i>in vivo</i> expression pattern, FGF-10 has been proposed to play unique roles in the brain, in lung development, wound healing and limb bud formation. Recombinant Mouse Fibroblast Growth Factor-10 is a single non-glycosylated polypeptide chain containing 173 amino acids.</p>		
Gene ID:	14165		
Source:	<i>E. coli</i>		
Molecular Weight:	Approximately 19.5 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS + 600 mM NaCl, pH7.4, + 1 mM mercaptoethanol.		
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 a cell proliferation assay using monkey 4MBr-5 cells is less than 120 ng/ml.		
Specific Activity:	>8.3 × 10 ³ IU/mg.		
Amino Acid Sequence:	QALGQDMVSQ EATNCSSSSS SFSSPSSAGR HVRSYNHLQG DVRWRRLFSF TKYFLTIEKN GKVSGTKNED CPYSVLEITS VEIGVVAVKA INSNYYLAMN KKGKLYGSKE FNNDCKLKER IEENGYNTYA SFNWQHNGRQ MYVALNGKGA PRRGQKTRRK NNTSAHFLPMT IQT		
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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