

## Fgf10

### Recombinant Rat Fibroblast Growth Factor-10

<b>Catalog No.</b>	CS502A CS502B CS502C	<b>Quantity:</b>	5 µg 20 µg 1 mg
<b>Alternate Names:</b>	FGF-10, Keratinocyte growth factor 2		
<b>Description:</b>	<p>Recombinant Rat FGF-10 was originally identified from rat embryos by homology-based polymerase chain reaction. Rat FGF-10 shares approximately 95% 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 KGF-2 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.</p> <p>Recombinant Rat FGF-10 is a single non-glycosylated polypeptide chain containing 179 amino acids.</p>		
<b>Gene ID:</b>	25443		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	20.0 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris + 500 mM NaCl, pH7.4.		
<b>Purity:</b>	>96 % by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	<1 EU/µg as determined by LAL method.		
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> determined by a cell proliferation assay using mouse 4MBr-5 cells is <110 ng/ml.		
<b>Specific Activity:</b>	> 9.1 × 10 <sup>3</sup> IU/mg.		
<b>Amino Acid Sequence:</b>	QALGQDMVSP EATNSSSSSS SSSSSSFSS PSSAGRHVRS YNHLQGDVRW RKLFSFTKYF LKIEKNGKVS GTKKENCPYS ILEITSVEIG VVAVKAINSN YYLAMNKKKGK LYGSKEFNND CKLKERIEEN GYNTYASFNW QHNGRQMYVA LNGKGAPRRG QKTRRKNTSA HFLPMVVHS		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> 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.		
<b>Storage &amp; Stability:</b>	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. <b>Avoid repeated freeze/thaw cycles.</b>		

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