

## FGF10

### Recombinant Human Fibroblast Growth Factor-10

<b>Catalog No.</b>	CRK001A CRK001B CRK001C	<b>Quantity:</b>	5 µg 25 µg 1.0 mg
<b>Alternate Names:</b>	Keratinocyte growth factor 2, KGF-2, FGF-10		
<b>Description:</b>	Fibroblast growth factor 10 belongs to the fibroblast growth factor (FGF) family which is involved in a variety of biological processes such as embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. Like most other FGF family members, FGF-10 also has a heparin-binding domain and it plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. In addition, FGF-10 may play a role in wound healing and is required for normal branching morphogenesis. Recombinant human FGF-10 shares 92% and 95% amino acid sequence identity with mouse and rat FGF-10. Defects in FGF-10 are the cause of autosomal dominant aplasia of lacrimal and salivary glands and lacrimo-auriculo-dento-digital syndrome.		
<b>Gene ID:</b>	2255		
<b>UniProt ID:</b>	O15520		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	Monomer, 19.3 kDa (170 aa)		
<b>Formulation:</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5		
<b>Purity:</b>	> 95% by reducing and non-reducing SDS-PAGE.		
<b>Endotoxin Level:</b>	<1 EU/µg by kinetic LAL		
<b>Biological Activity:</b>	ED <sub>50</sub> ≤ 200 ng/ml, determined by dose-dependent proliferation of 4MBr-5 cells.		
<b>Specific Activity:</b>	≥ 5.0 × 10 <sup>3</sup> units/mg		
<b>Amino Acid Sequence:</b>	MLQQDMVSPE ATNSSSSFS SPSSAGRHVR SYNHLQGDVR WRKLFSFTKY FLKIEKNGKV SGTKKENCPY SILEITSVEIGVVAVKAINS NYYLAMNKKG KLYGSKEFNN DCKLKERIEE NGYNTYASFN WQHNGRQMYV ALNGKGAPRR GQKTRRKNTS AHFLPMVVHS		
<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. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.		



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**Storage & Stability:**

Store as supplied at -20°C to -80°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. **Avoid repeated freeze/thaw cycles.**

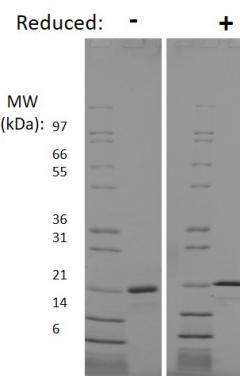
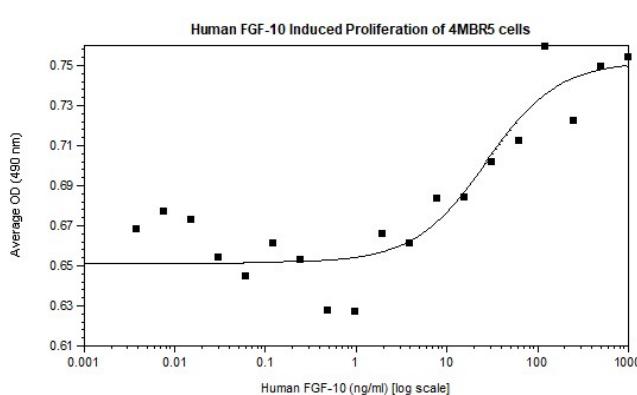
**Human FGF-10 Gel**

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human FGF-10 is predicted have a MW of 19.3 kDa.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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