FGF10
Recombinant Human Fibroblast Growth Factor-10, Animal Free

Catalog No.	CRK001A-AF	**Quantity:**	5 µg
	CRK001B-AF		25 µg
	CRK001C-AF		1.0 mg

Alternate Names: Keratinocyte growth factor 2, KGF-2, FGF-10

Description: 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.

Gene ID: 2255

Source: *E. coli*

Molecular Weight: Monomer, 19.3 kDa (170 aa)

Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5

Purity: > 95% by reducing and non-reducing SDS-PAGE.

Endotoxin Level: <1 EU/µg by kinetic LAL

Biological Activity: ED_{50} ≤ 200 ng/ml, determined by dose-dependent proliferation of 4MBr-5 cells.

Specific Activity: ≥ 5.0 x 10^3 units/mg

Amino Acid Sequence: MLGQDMVSPE ATNSSSSSFS SPSSAGRHVR SYNHLQGDVR WRKLFSFTKY FLKIEKNGKV SGTKKENCPY SILEITSVEIGVVAVKAINS NYYLAMNKKG KLYGSKEFNN DCKLKERIEE NGYNTYASFN WQHNGRQMYV ALNGKGAPRR GQKTRRKNTS AHFLPMVVHS

Reconstitution: **Centrifuge vial prior to opening.** 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. **DO NOT VORTEX.** Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.

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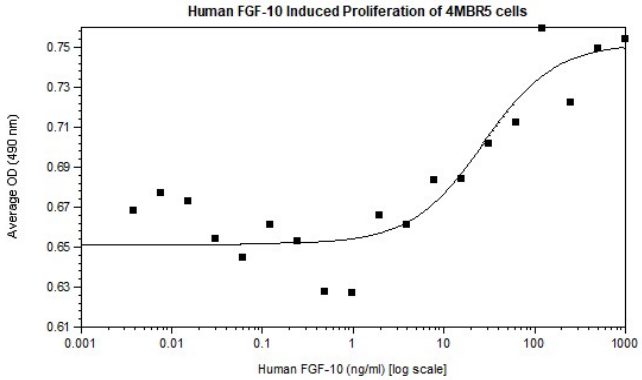
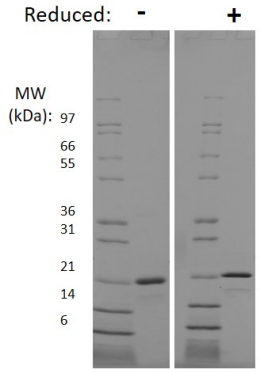
Storage & Stability: Store as supplied at -20°C to -80°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is 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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