

FGF10

Recombinant Human Fibroblast Growth Factor-10

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

Alternate Names: KGF-2, FGF-10

Description: Recombinant Human FGF-10 is composed of 169 amino acid residues (aa 40 - 208).
 Background: 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 contains 208 amino acids and it 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: ~19.3 kDa

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.

Purity: >97% as determined by HPLC and SDS-PAGE analyses

Endotoxin Level: <1 EU/µg of recombinant human FGF-10 as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED₅₀ determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10⁶ IU/mg.

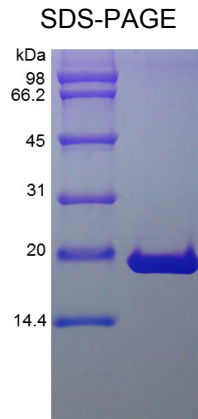
Amino Acid Sequence: LGQDMVSPEA TNSSSSFSS PSSAGRHVRS YNHLQGDVRW RKLFSFTKYF
 LKIEKNGKVS GTKKENCYPYS ILEITSVEIG VVAVKAINSN YYLAMNKKGK
 LYGSKEFNND CKLKERIEEN GYNTYASFNW QHNGRQMYVA LNGKGAPRRG
 QKTRRKNTSA HFLPMVVHS

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 2-8°C. Upon receipt, store desiccated at -20°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.



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