

**BACKGROUND:**

Fibroblast growth factor 10 (FGF10) is a growth factor that is important during embryonic development, especially during lung, limb, brain, heart, and kidney morphogenesis. FGF10 is expressed in mesenchymal cells and facilitates epithelial-mesenchymal signaling through binding the epithelially expressed FGF receptor 2b (FGFR2b). FGF10 also functions as a mitogen for keratinizing epidermal cells, and induces the migration and invasion of cancer cells.

Recombinant human XYZ is a non-glycosylated protein monomer, containing 170 amino acids and having a molecular mass of 19.2 kDa.

**Cat. No.:**  
RP1183AF

**Alternate Names:**  
Keratinocyte growth factor 2

**AA Sequence:**  
MLGQDMVSPE ATNSSSSSFS SPSSAGRHRV SYNHL  
QGDVR WRKLSFTKY FLKIEKNGKV SGTKKENCY S  
ILEITSVEIGVVAVKAINS NYLAMNKKG KLYGSKEFN  
N DCKLKERIEE NGYNTYASFN WQHNGRQMYV ALNG  
KGAPRR GQKTRRKNTS AHFLPMVVHS

**TECHNICAL INFO**

**Source:**  
*E. coli*

**Physical Appearance:**  
Sterile Filtered white lyophilized (freeze-dried) powder.

**Formulation:**  
10 mM sodium phosphate, pH 7.5

**Stability:**  
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**  
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity determined by:**

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

**Endotoxin Level:**  
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

**Biological Activity:**  
The activity is measured by dose-dependent 4MBr-5 cell proliferation, with acceptance Criteria ED50 at 200 ng/mL.

**Animal Component-Free**  
This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

