

## Background:

Keratinocyte Growth Factor-2 (KGF-2), also known as FGF-10, was originally identified from rat embryos by homology-based polymerase chain reaction. Human and mouse KGF-2 were subsequently cloned. The human KGF-2 cDNA encodes a 208 amino acid residue protein with a hydrophobic amino-terminal signal peptide. Human KGF-2 shares approximately 92% and 95% amino acid sequence identity with mouse and rat KGF-2, respectively. Among the FGF family members, KGF-2 is most closely related to FGF-7. The expression of KGF-2 transcripts has been shown to be most abundant in the embryo and adult lung. Recombinant KGF-2 preparations have been shown to be mitogenic for epithelial and epidermal cells but not fibroblasts. Based on its in vitro biological activities and in vivo expression pattern, KGF-2 has been proposed to play unique roles in the brain, in lung development, wound healing and limb bud formation.

## Source:

Recombinant Human FGF10/KGF 2 is expressed from Escherichia coli. It contains AA Gln 38 - Ser 208. Predicted molecular mass 22.1 kDa. This protein carries a polyhistidine tag at the N-terminus.

**His<sub>6</sub> TEV FGF10 (Gln 38 - Ser 208)**

## Endotoxin:

Less than 1.0 EU per µg by the LAL method.

## AA Sequence:

QALGQDMVSPE ATNSSSSSFS SPSSAGRHRV SRVHLLQGDVR WRKLFSTFKY FLKIEKNGKV SGTKKENCYP SILEITSVEI  
GVVAVKAINS NYYLAMNKKG KLYGSKEFNN DCKLKERIEE NGYNTYASFN WQHNGRQMYV ALNGKGAPRR GQKTRRKNTS  
AHFLPMVVHS

## Purity:

Purity >95% as determined by SDS-PAGE.

## Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization. Contact us for customized product form or formulation.

## Reconstitution

Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20°C. Further dilutions should be made in appropriate buffered solutions.

## Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

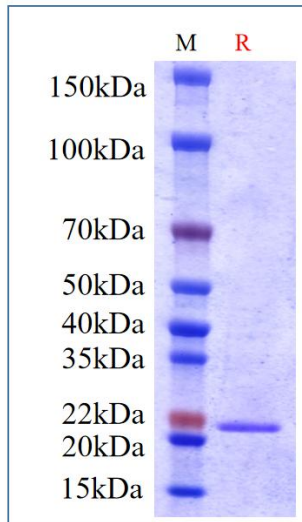
**Please avoid repeated freeze-thaw cycles.**

This product is stable after storage at:

-20°C to -70°C for 12 months in lyophilized state;

-70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human FGF-10, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.