

# Biotinylated Human FGF-7/KGF Protein

Cat. No. KGF-HE401B

## Description

<b>Source</b>	Recombinant Biotinylated Human FGF-7/KGF Protein is expressed from E.coli with His tag and Avi tag at the N-terminus. It contains Cys32-Thr194.
<b>Accession</b>	P21781-1
<b>Molecular Weight</b>	The protein has a predicted MW of 21.79 kDa. The protein migrates to 25-28 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

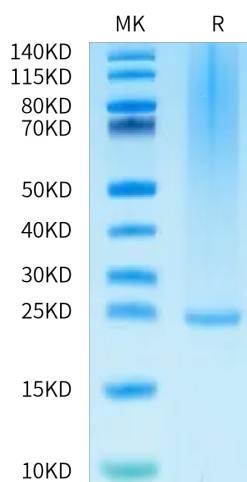
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The expression patterns of mRNAs encoding Fibroblast Growth Factor-7 (FGF-7) and its high affinity receptor suggested that FGF-7 signaling may play a role in regulating ureteric bud growth. Results of these studies demonstrate that the developing ureteric bud and mature collecting system of FGF-7-null kidneys is markedly smaller than wild type. FGF-7 levels modulate the extent of ureteric bud growth during development and the number of nephrons that eventually form in the kidney.

## Assay Data

### Bis-Tris PAGE

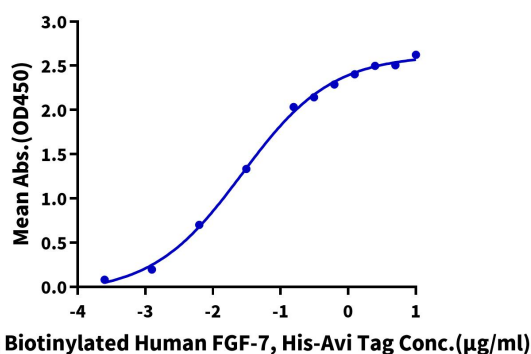


Biotinylated Human FGF-7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Biotinylated Human FGF-7, His-Avi Tag ELISA

0.5µg Human FGFR2 beta (IIIb), hFc Tag Per Well



Immobilized Human FGFR2 beta (IIIb), hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human FGF-7, His-Avi Tag with the EC50 of 26.7ng/ml determined by ELISA (QC Test).