

**Biotinylated Human FGF-7 / HBGF-7 / KGF Protein, His,Avitag™**

Catalog # FG7-H82E7



**Synonym**

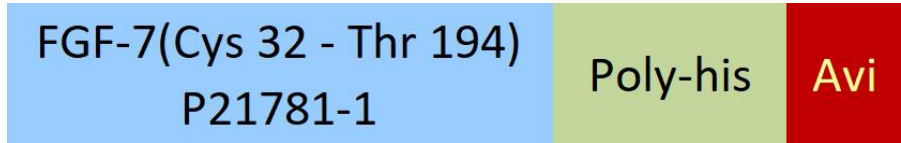
FGF-7, Fibroblast growth factor 7, HBGF-7, Keratinocyte growth factor, KGF

**Source**

Biotinylated Human FGF-7, His,Avitag (FG7-H82E7) is expressed from human 293 cells (HEK293). It contains AA Cys 32 - Thr 194 (Accession # [P21781-1](#)).

Predicted N-terminus: Cys 32

**Molecular Characterization**



Other Tags and Version Biotin & Other Labeled Version

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).  
The protein has a calculated MW of 22.6 kDa. The protein migrates as 25-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

**Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.**

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.  
Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.  
**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
**Please avoid repeated freeze-thaw cycles.**

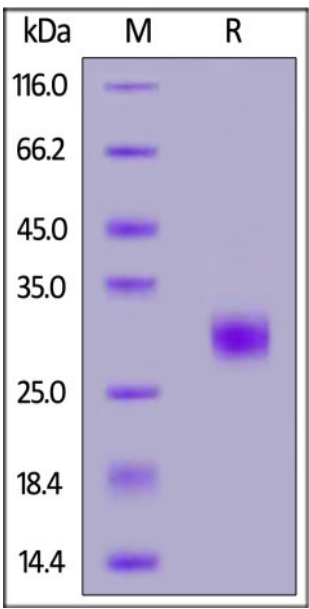
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**ACRO Quality Management System**

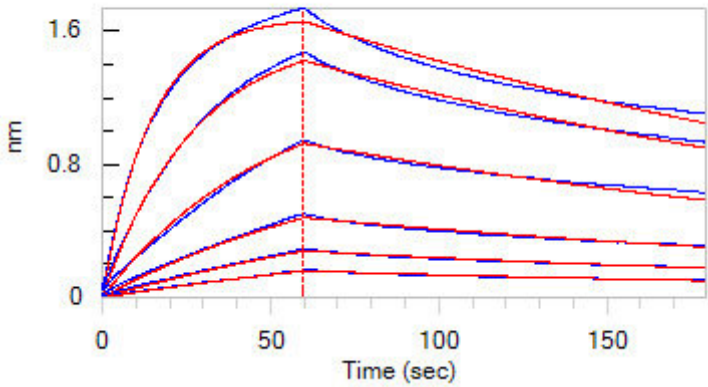
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

**SDS-PAGE**

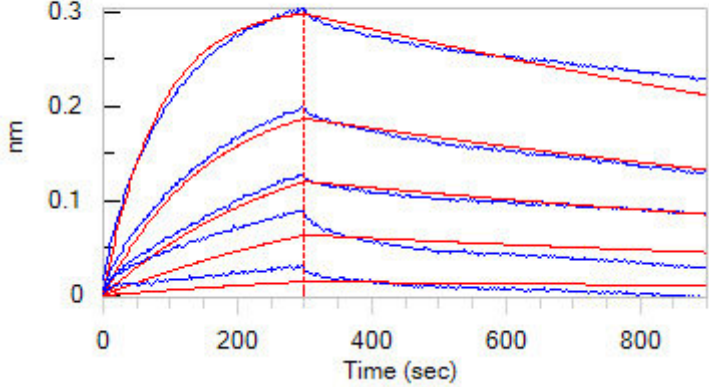


Biotinylated Human FGF-7, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

### Bioactivity-BLI



Loaded Biotinylated Human FGF-7, His,Avitag (Cat. No. FG7-H82E7) on SA Biosensor, can bind Human FGF R2 (IIIb), Fc Tag (Cat. No. FGB-H5256) with an affinity constant of 37 nM as determined in BLI assay (ForteBio Octet Red96e) (QC tested).



Loaded Biotinylated Human FGF-7, His,Avitag (Cat. No. FG7-H82E7) on SA Biosensor, can bind Human FGF R1, His Tag (Cat. No. FG1-H5223) with an affinity constant of 243 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

### Background

Fibroblast growth factor (FGF) 7 (is also known as Keratinocyte growth factor (KGF)), a member of FGF family, is initially found to be secreted from mesenchymal cells to repair epithelial tissues. As a well-characterized paracrine growth factor for tissue growth and regeneration, fibroblast growth factor 7 (FGF7) is involved in a number of physiological and pathological processes, including lung disease and cancer. The stromal-derived FGFs, such as FGF7 and FGF10, control epithelial cell resident FGFR2IIIb activities, promote net tissue homeostasis, and restraint tumor cells from progression to malignancy.

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