

**Synonym**

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

Source

Human FGF-7 Protein, His Tag (FG7-H52H5) is expressed from human 293 cells (HEK293). It contains AA Cys 32 - Thr 194 (Accession # [P21781-1](#)).

Molecular Characterization

FGF-7(Cys 32 - Thr 194)	Poly-his
P21781-1	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 20.9 kDa. The protein migrates as 25-27 kDa under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per μ g by the LAL method / rFC method.

Sterility

Negative

Mycoplasma

Negative

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-HPLC.

Formulation

Lyophilized from 0.22 μ m 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.

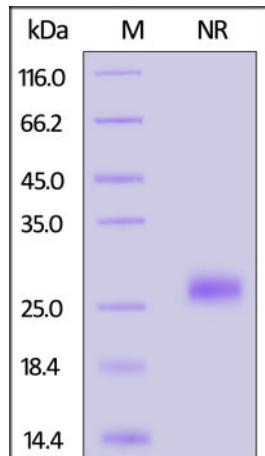
Storage

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

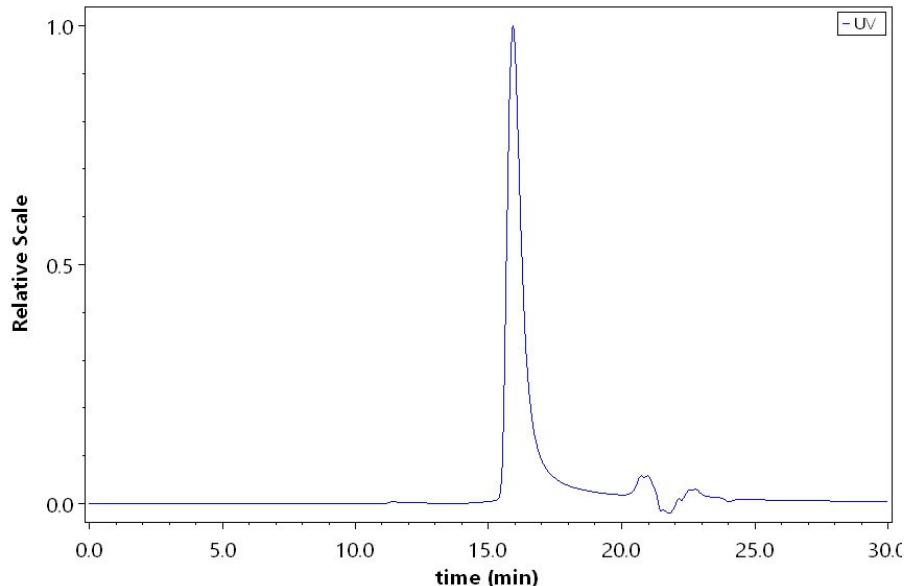
Please avoid repeated freeze-thaw cycles.

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.

SDS-PAGE

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

SEC-HPLC

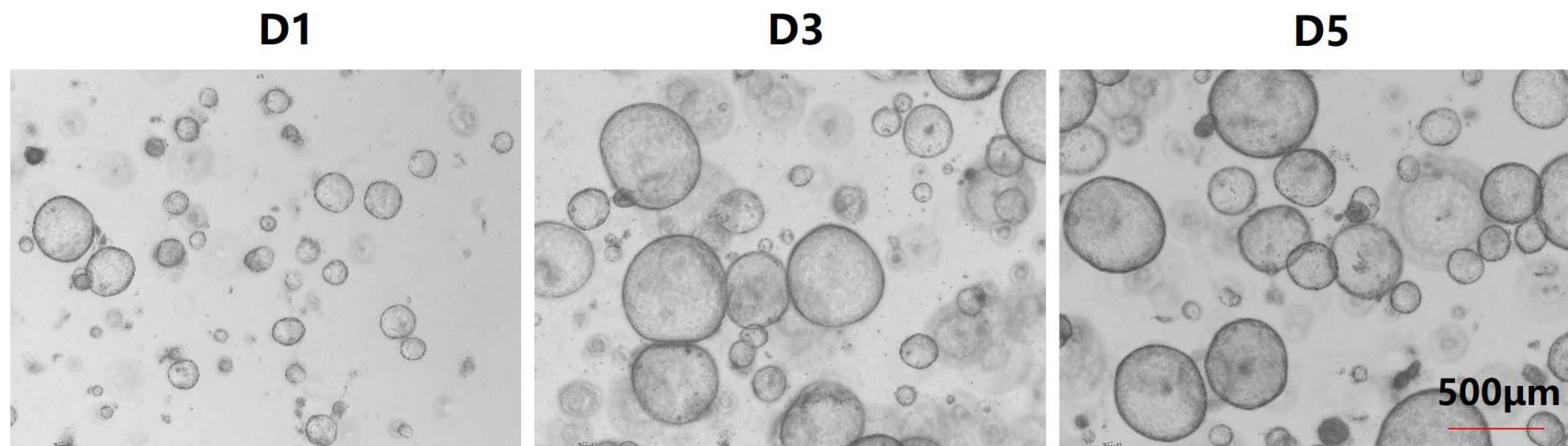
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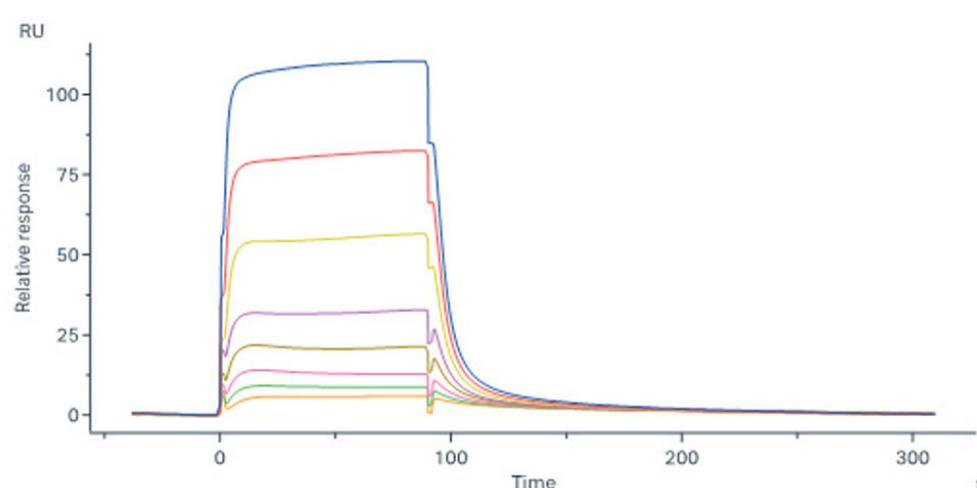
The purity of Human FGF-7 Protein, His Tag (Cat. No. FG7-H52H5) was greater than 95% as determined by SEC-HPLC.

Bioactivity-Organoid Culture



Human EGF (Cat. No. EGF-H52H3), Noggin (Cat. No. NON-H5257), R-spondin1 (Cat. No. RS6-H4220), FGF7 (Cat. No. FG7-H52H5), FGF10, HGF (Cat. No. HGF-H52H3) actively support liver ductal organoid growth.

Bioactivity-SPR



Human FGF R2 (IIIb), Fc Tag (Cat. No. FGB-H5256) immobilized on CM5 Chip can bind Human FGF-7 Protein, His Tag (Cat. No. FG7-H52H5) with an affinity constant of $0.275 \mu\text{M}$ as determined in a SPR assay (Biacore 8K) (QC 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 restrain tumor cells from progression to malignancy.

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