

**Synonym**

FGF-17, Fibroblast growth factor 17, FGF17

**Source**

Human FGF-17 Protein, His Tag(FG7-H5144) is expressed from *E. coli* cells. It contains AA Thr 23 - Thr 216 (Accession # [O60258-1](#)).

Predicted N-terminus: Met

**Molecular Characterization**

|          |                          |
|----------|--------------------------|
| Poly-his | FGF-17(Thr 23 - Thr 216) |
|          | O60258-1                 |

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

The protein has a calculated MW of 24.5 kDa. The protein migrates as 28-30 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE).

**Endotoxin**Less than 0.1 EU per  $\mu$ g by the LAL method / rFC method.**Host Cell Protein**<0.5 ng/ $\mu$ g of protein tested by ELISA.**Host Cell DNA**<0.02 ng/ $\mu$ g of protein tested by qPCR.**Sterility**

Negative

**Mycoplasma**

Negative

**Purity**

&gt;95% as determined by SDS-PAGE.

&gt;90% as determined by SEC-HPLC.

**Formulation**

Lyophilized from 0.22  $\mu$ 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.*

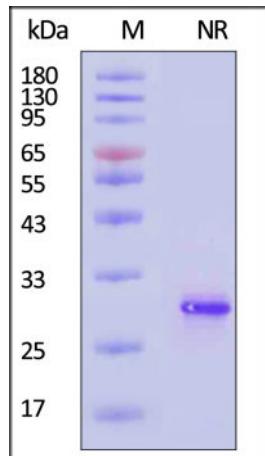
**Storage**

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

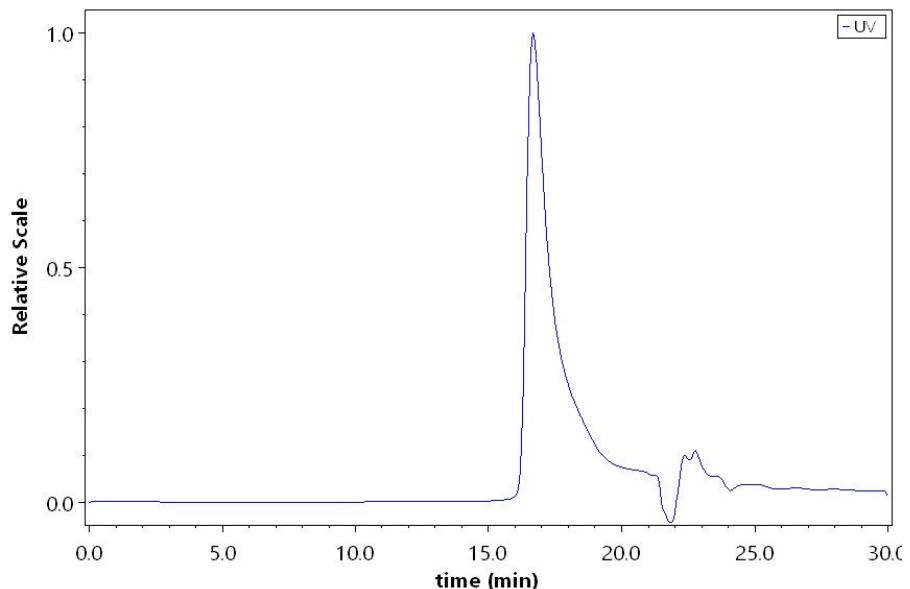
*Please avoid repeated freeze-thaw cycles.*

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-17 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

**SEC-HPLC**

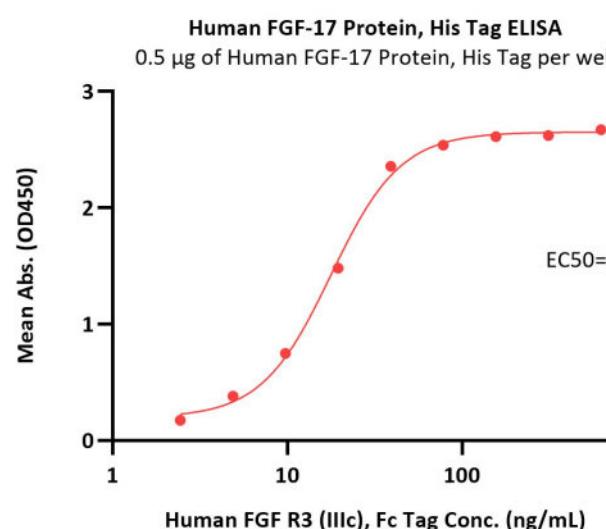
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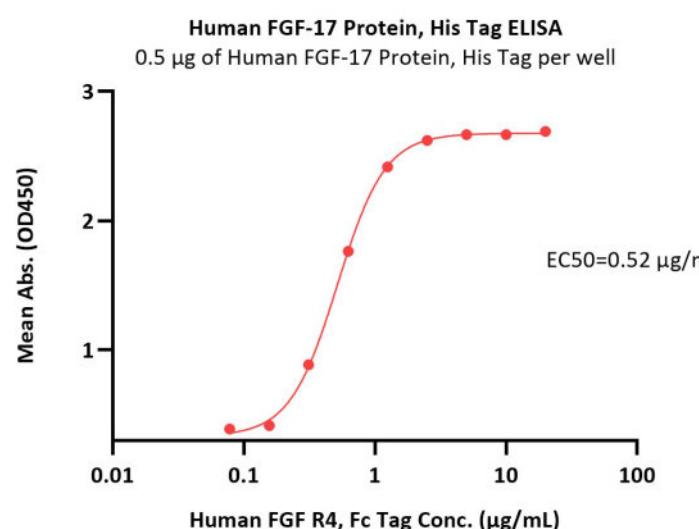


The purity of Human FGF-17 Protein, His Tag (Cat. No. FG7-H5144) was greater than 90% as determined by SEC-HPLC.

## Bioactivity-ELISA



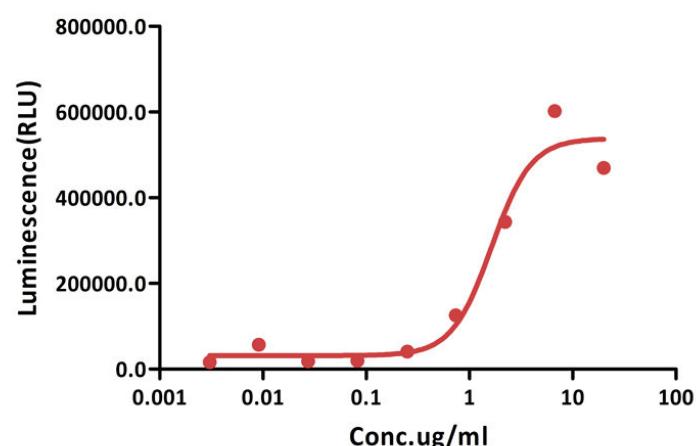
Immobilized Human FGF-17 Protein, His Tag (Cat. No. FG7-H5144) at 5 µg/mL (100 µL/well) can bind Human FGF R3 (IIIc), Fc Tag (Cat. No. FGC-H5256) with a linear range of 2-40 ng/mL (QC tested).



Immobilized Human FGF-17 Protein, His Tag (Cat. No. FG7-H5144) at 5 µg/mL (100 µL/well) can bind Human FGF R4, Fc Tag (Cat. No. FG4-H5253) with a linear range of 0.078-0.625 µg/mL (QC tested).

## Bioactivity-CELL BASE

### Human FGF-17 Protein, His Tag stimulates proliferation of NIH-3T3 cells



Human FGF-17 Protein, His Tag (Cat. No. FG7-H5144) stimulates proliferation of NIH-3T3 cells. The EC50 for this effect is 1.495-1.639 µg/mL (Routinely tested).

## Background

Fibroblast growth factors (FGFs) are a large family of structurally related proteins that are involved in wide variety of cellular processes including proliferation, differentiation, migration, and apoptosis. FGF17 also referred to as FGF-13, is expressed during embryogenesis and in the adult cerebellum and cortex and may be essential for vascular growth and normal brain development. Additionally, FGF17 together with FGF8, is a key factor in the patterning of the mid-hindbrain region with a complex picture of spatiotemporal gene expression during the various stages of cerebellar development.

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