

Synonym

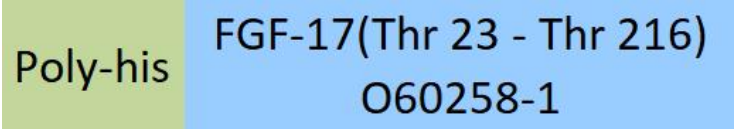
FGF-17,Fibroblast growth factor 17,FGF17

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



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 µg by the LAL method / rFC method.

Host Cell Protein

<0.5 ng/µg of protein tested by ELISA.

Host Cell DNA

<0.02 ng/µg of protein tested by qPCR.

Sterility

Negative

Mycoplasma

Negative

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

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

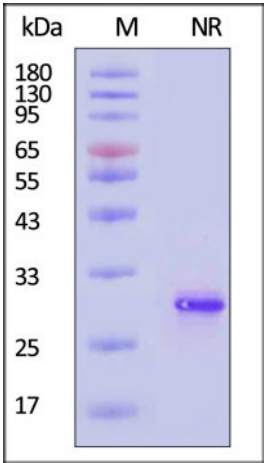
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

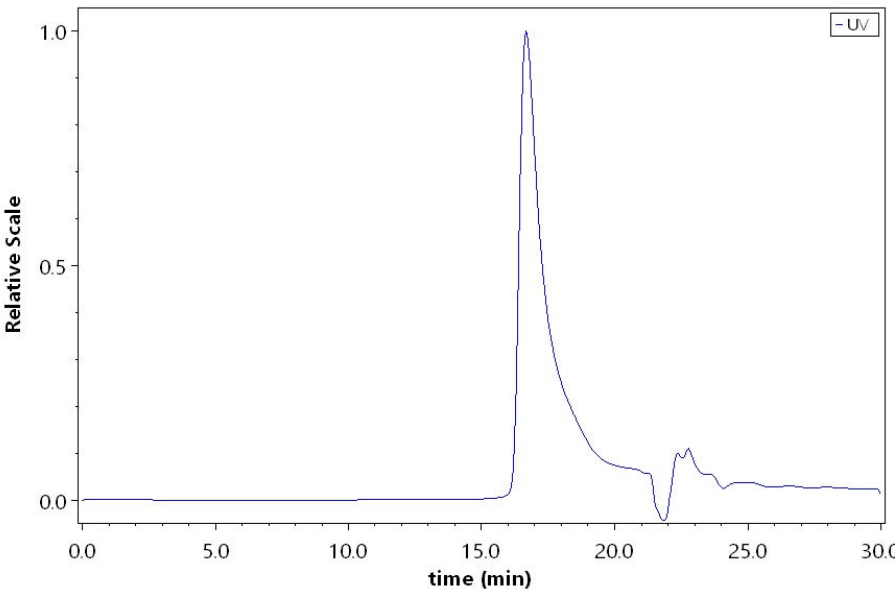
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

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

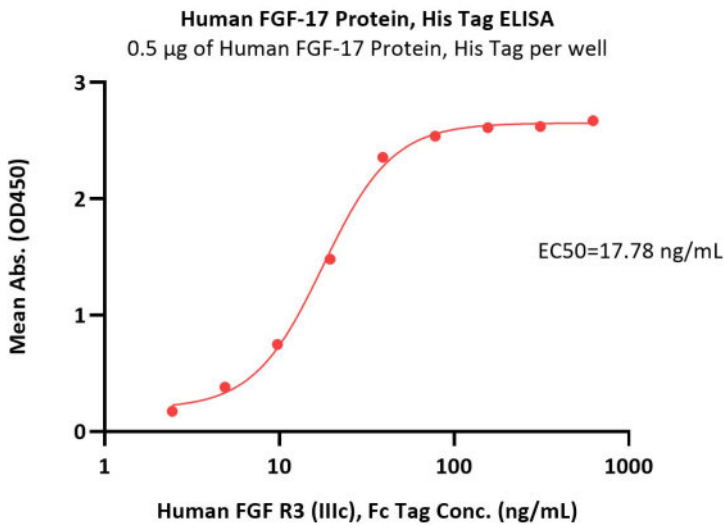


Discounts, Gifts,
and more!

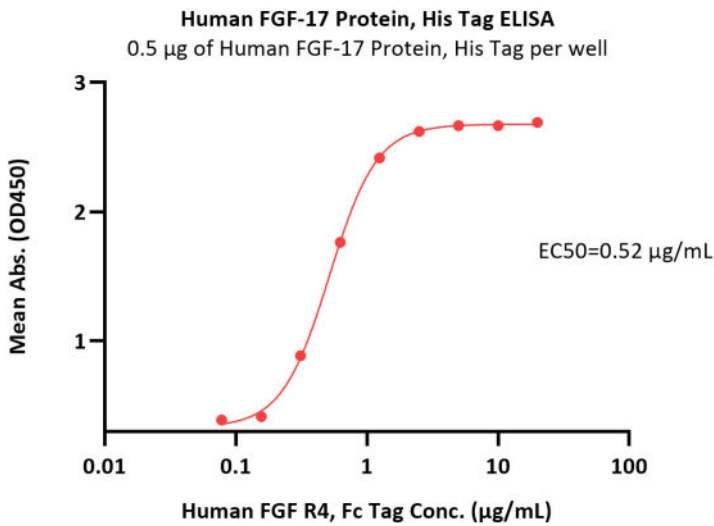


The purity of Human FGF-17 Protein, His Tag (Cat. No. FG7-H5144) was greater than 90% as determined by SEC-HPLC.

Bioactivity-ELISA



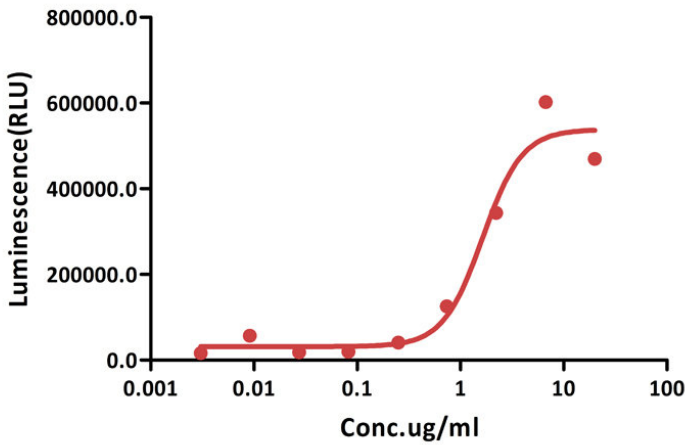
Immobilized Human FGF-17 Protein, His Tag (Cat. No. FG7-H5144) at 5 µg/mL (100 µL/well) can bind Human FGF R3 (IIIc), Fc Tag (Cat. No. FGC-H5256) with a linear range of 2-40 ng/mL (QC tested).



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.

