



## Synonym

FGF-6, Fibroblast growth factor 6, HST-2, HBGF-6

## Source

Human FGF-6 Protein, His Tag (FG6-H51H4) is expressed from E. coli cells. It contains AA Gly 41 - Ile 208 (Accession # [P10767-1](#)).

Predicted N-terminus: Gly 41

## Molecular Characterization

FGF-6(Gly 41 - Ile 208)  
P10767-1 Poly-his

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

The protein has a calculated MW of 20.6 kDa. The protein migrates as 23-25 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM Sodium Citrate, pH3.0 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

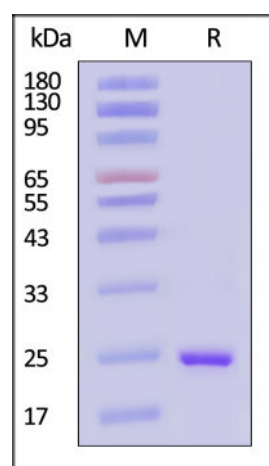
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

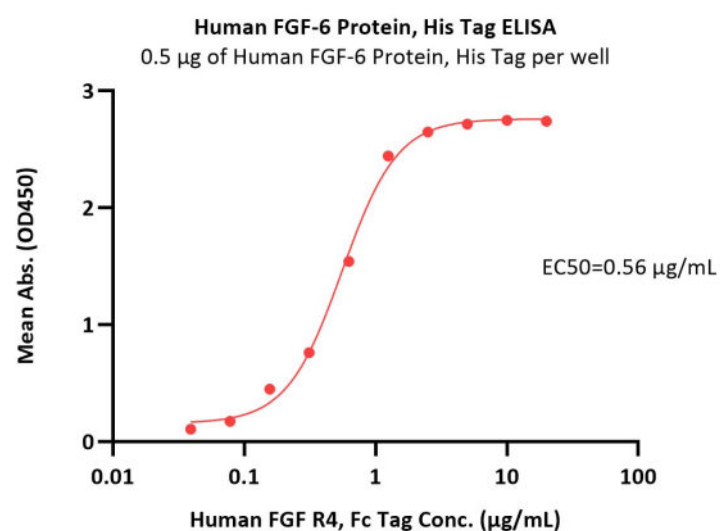


Human FGF-6 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

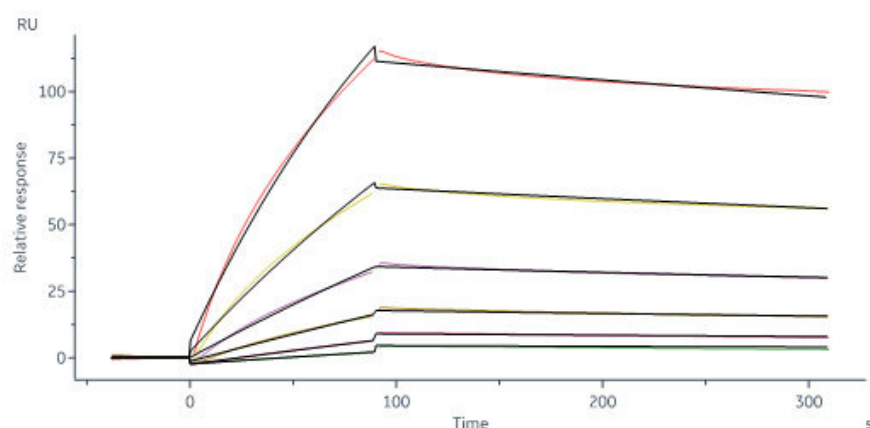
Discounts, Gifts,  
and more!



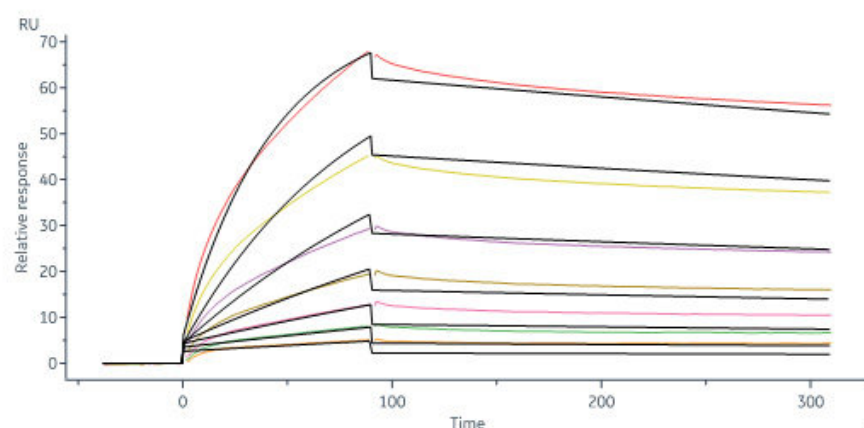


Immobilized Human FGF-6 Protein, His Tag (Cat. No. FG6-H51H4) at 5 µg/mL (100 µL/well) can bind Human FGF R4, Fc Tag (Cat. No. FG4-H5253) with a linear range of 0.039-1.25 µg/mL (QC tested).

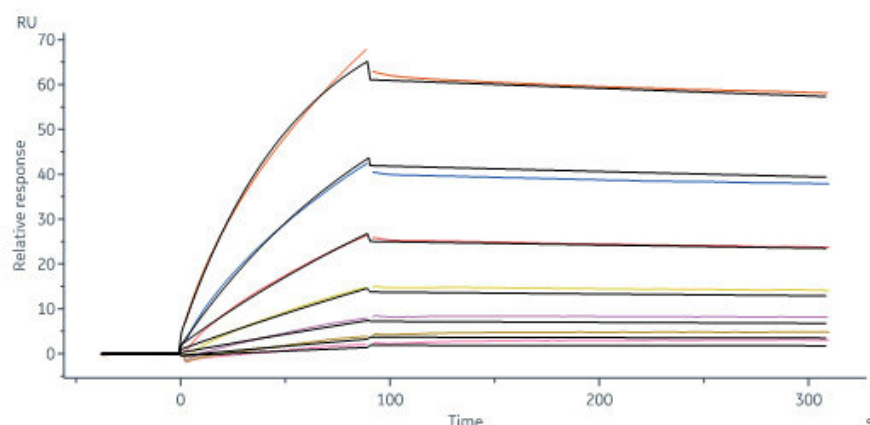
**Bioactivity-SPR**



Human FGF-6 Protein, His Tag (Cat. No. FG6-H51H4) immobilized on CM5 Chip can bind Human FGF R1, His Tag (Cat. No. FG1-H5223) with an affinity constant of 45 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).



Human FGF-6 Protein, His Tag (Cat. No. FG6-H51H4) immobilized on CM5 Chip can bind Human FGF R4, Fc Tag (Cat. No. FG4-H5253) with an affinity constant of 13.4 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).



Human FGF-6 Protein, His Tag (Cat. No. FG6-H51H4) immobilized on CM5 Chip can bind Human FGF R2 (IIIb), Fc Tag (Cat. No. FGB-H5256) with an affinity constant of 33.2 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

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and more!





## Background

Fibroblast growth factor 6 plays an important role in the regulation of cell proliferation, cell differentiation, angiogenesis and myogenesis, and is required for normal muscle regeneration.

For instance, FGF-6 might involve in MSCs proliferation and chondrogenic differentiation. Additionally, FGF-6 were identified as oncogene products. FGF6 is found over expressed in prostatic intraepithelial neoplasia and prostate cancer and promotes the proliferation of the transformed prostatic epithelial cells.

## Clinical and Translational Updates

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