

**Source**

Biotinylated Human Latent GDF-8 Protein, His,Avitag(GD8-H82Q3) is expressed from human 293 cells (HEK293). It contains AA Asn 24 - Ser 375 (Accession # [O14793-1](#)).

Predicted N-terminus: Gly

**Molecular Characterization**

This protein carries an Avi tag (Avitag™) at the N-terminus, followed by a polyhistidine tag.

The protein has a calculated MW of 43.7 kDa. The protein migrates as 40 kDa and 53-55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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.

**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 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.*

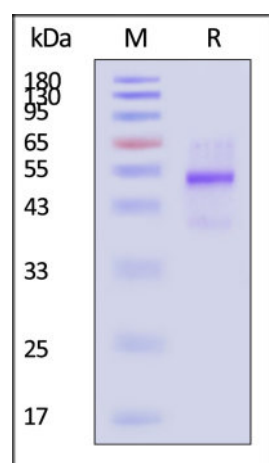
**Storage**

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.

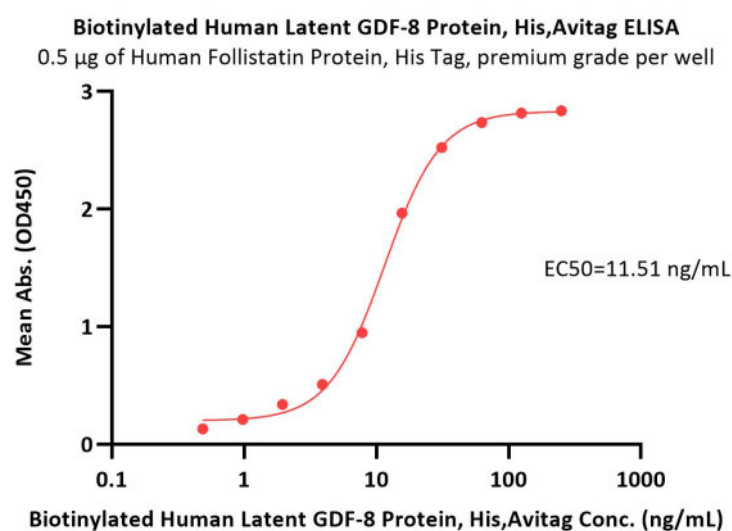
**SDS-PAGE**

Biotinylated Human Latent GDF-8 Protein, His,Avitag 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**

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Immobilized Human Follistatin Protein, His Tag, premium grade (Cat. No. FON-H52H4) at 5 µg/mL (100 µL/well) can bind Biotinylated Human Latent GDF-8 Protein, His,Avitag (Cat. No. GD8-H82Q3) with a linear range of 0.5-31 ng/mL (QC tested).

## Background

Growth differentiation factor 8 (GDF8), also known as myostatin, is a unique member of the transforming growth factor-β superfamily that is expressed in human granulosa cells and has important roles in regulating a variety of ovarian functions. GDF8 acts as a negative regulator of skeletal muscle growth and differentiation. In addition to the expression in the musculoskeletal system, GDF8 is also expressed in various tissues, including the reproductive system.

## Clinical and Translational Updates

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