



Synonym

GDF-8, Myostatin, GDF8, MSTN, Growth,differentiation factor 8

Source

Human GDF-8 Protein, Tag Free(GD8-H5344) is expressed from CHO cells. It contains AA Asp 267 - Ser 375 (Accession # [O14793](#)).

Predicted N-terminus: Asp 267

Molecular Characterization

GDF-8(Asp 267 - Ser 375)
O14793

This protein carries no "tag".

The protein has a calculated MW of 12.4 kDa. The protein migrates as 12.0 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 50 mM HAC, 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

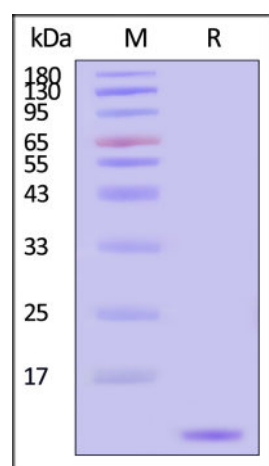
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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 GDF-8 Protein, Tag Free 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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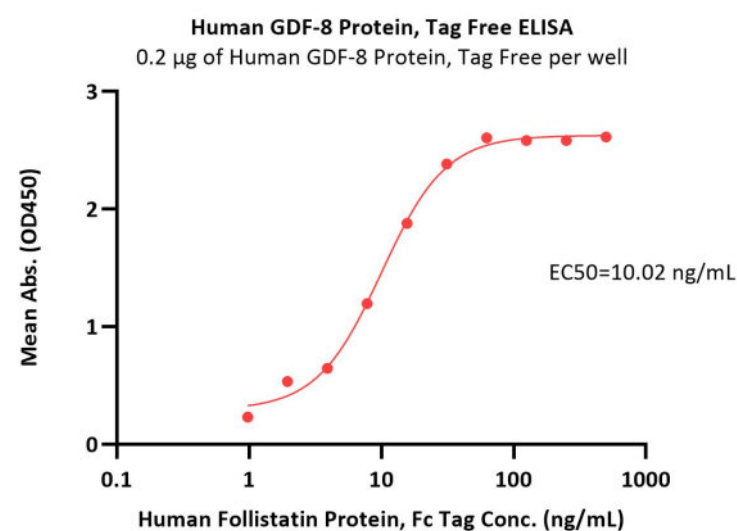
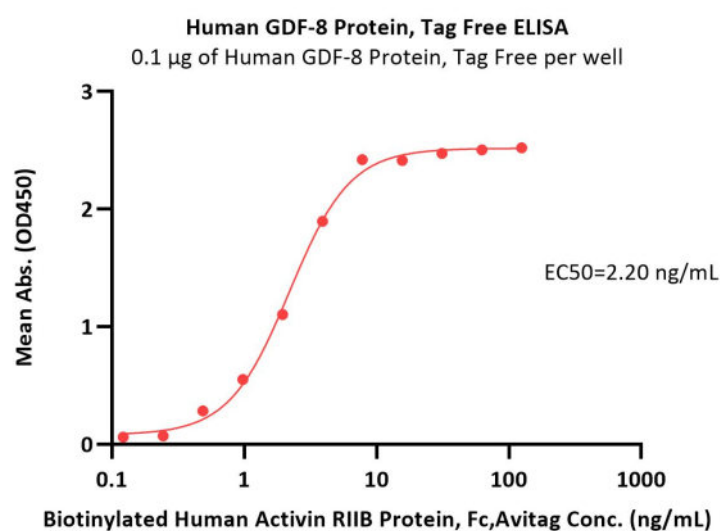


Human GDF-8 Protein, Tag Free

Catalog # GD8-H5344

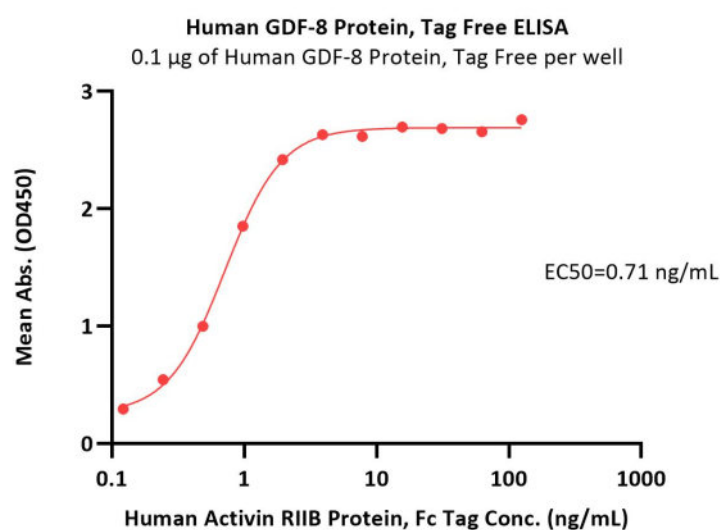


BIOSYSTEMS
Acro



Immobilized Human GDF-8 Protein, Tag Free (Cat. No. GD8-H5344) at 1 µg/mL (100 µL/well) can bind Biotinylated Human Activin RIIB Protein, Fc,Avitag (Cat. No. ACB-H82F3) with a linear range of 0.1-8 ng/mL (QC tested).

Immobilized Human GDF-8 Protein, Tag Free (Cat. No. GD8-H5344) at 2 µg/mL (100 µL/well) can bind Human Follistatin Protein, Fc Tag (Cat. No. FON-H5256) with a linear range of 1-31 ng/mL (Routinely tested).



Immobilized Human GDF-8 Protein, Tag Free (Cat. No. GD8-H5344) at 1 µg/mL (100 µL/well) can bind Human Activin RIIB Protein, Fc Tag (Cat. No. ACB-H5254) with a linear range of 0.1-2 ng/mL (Routinely 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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