

# Mouse latent GDF-8 Protein, His Tag

Catalog # GD8-M5243



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Surprise Inside!

## Source

Mouse latent GDF-8 Protein, His Tag(GD8-M5243) is expressed from human 293 cells (HEK293). It contains AA Asn 25 - Ser 376 (Accession # [O08689](#)).  
Predicted N-terminus: His

## Molecular Characterization

Poly-his latent GDF-8(Asn 25 - Ser 376)  
O08689

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

The protein has a calculated MW of 42.0 kDa. The protein migrates as 35 kDa and 45-50 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## 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

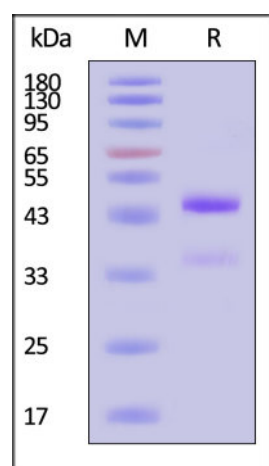
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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



Mouse latent GDF-8 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

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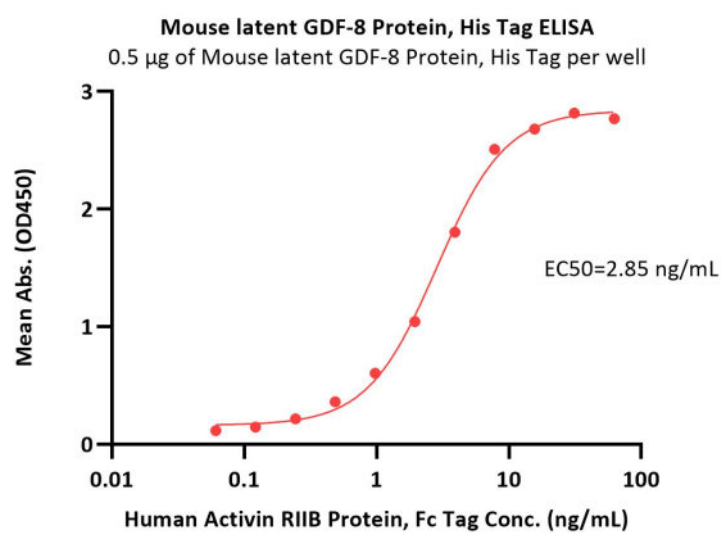
10/9/2024

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Immobilized Mouse latent GDF-8 Protein, His Tag (Cat. No. GD8-M5243) at 5 µg/mL (100 µL/well) can bind Human Activin RIIB Protein, Fc Tag (Cat. No. ACB-H5254) with a linear range of 0.06-8 ng/mL (QC tested).

## Background

Growth differentiation factor 8 (GDF8), also known as myostatin, is a unique member of the transforming growth factor- $\beta$  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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