

# Biotinylated Human Latent GDF-8 Protein

Cat. No. GDF-HM418B

## Description

<b>Source</b>	Recombinant Biotinylated Human Latent GDF-8 Protein is expressed from HEK293 with His tag and Avi Tag at the N-terminus. It contains Asn24-Ser375.
<b>Accession</b>	O14793
<b>Molecular Weight</b>	The protein has a predicted MW of 43 kDa. Due to glycosylation, the protein migrates to 13-15 kDa and 35-40 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

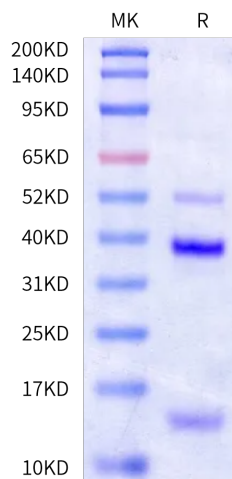
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Growth/differentiation factor 8 (GDF8), or myostatin, negatively regulates muscle mass. GDF8 is held in a latent state through interactions with its N-terminal prodomain. GDF8, like numerous TGF-β family members, is a disulfidelinked dimer that is synthesized as a precursor protein which requires cleavage by a furin-like protease to yield an N-terminal prodomain and a C-terminal mature, signaling domain.

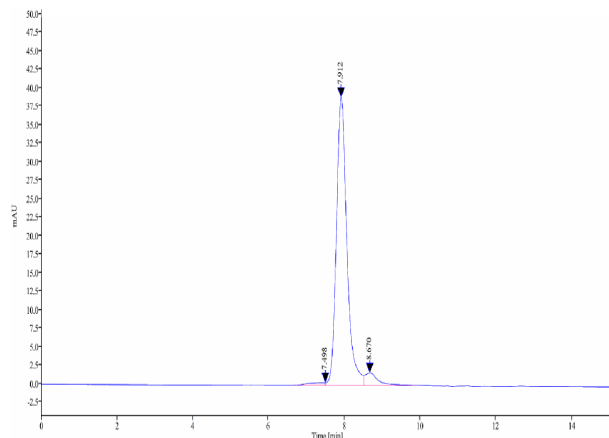
## Assay Data

### Bis-Tris PAGE



Biotinylated Human Latent GDF-8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Biotinylated Human Latent GDF-8 is greater than 90% as determined by SEC-HPLC.

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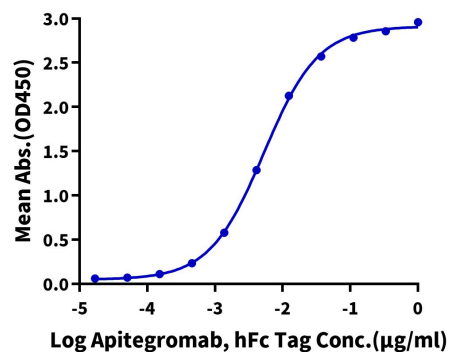


## Assay Data

### ELISA Data

#### Biotinylated Human Latent GDF-8, His Avi Tag ELISA

0.05 $\mu$ g Biotinylated Human Latent GDF-8, His Avi Tag Per Well



Immobilized Biotinylated Human Latent GDF-8, His Avi Tag at 0.5 $\mu$ g/ml (100 $\mu$ l/well) on the streptavidin precoated plate (5 $\mu$ g/ml). Dose response curve for Apitegromab, hFc Tag with the EC50 of 5.3ng/ml determined by ELISA.