

Biotinylated Human Latent GDF-8 Protein (pro&latent)



Cat. No. GDF-HM408B

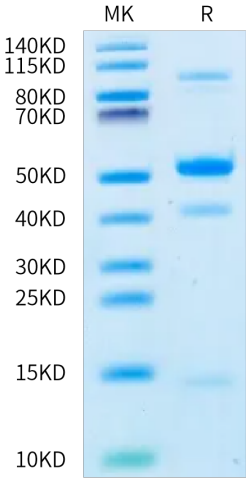
Description	
Source	Recombinant Biotinylated Human Latent GDF-8 Protein is expressed from HEK293 with His tag and Avi Tag at the N-terminus. It contains Asn24-Ser375.
Accession	O14793
Molecular Weight	The protein has a predicted MW of 43 kDa. Due to glycosylation, the protein migrates to 14 kDa, 38-40 kDa and 45-52 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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.	

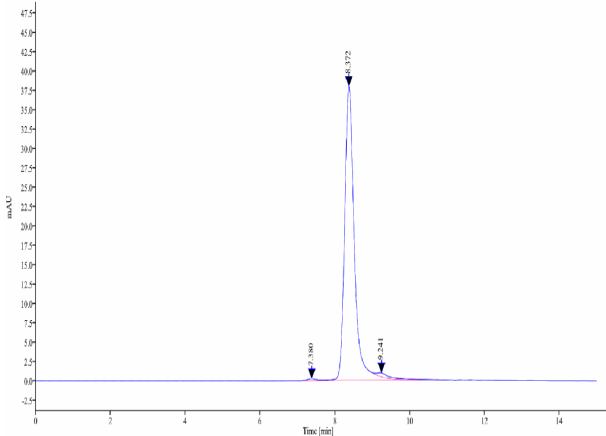
Assay Data

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 95% as determined by SEC-HPLC.

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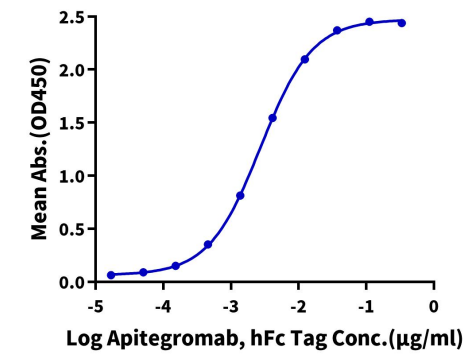
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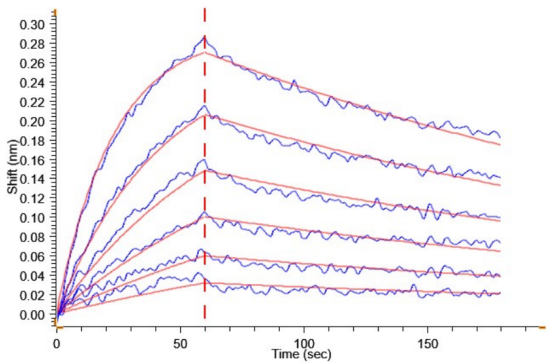
ELISA Data

Biotinylated Human Latent GDF-8, His Avi Tag ELISA
0.05µg Biotinylated Human Latent GDF-8, His Avi Tag Per Well



Immobilized Biotinylated Human Latent GDF-8, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Apitegromab, hFc Tag with the EC50 of 2.7ng/ml determined by ELISA.

BLI Data



Loaded Apitegromab, hFc Tag on ProA-Biosensor can bind Biotinylated Human Latent GDF-8 , His Tag with an affinity constant of 18.30 nM as determined in BLI assay (Gator® Prime).