Human Latent GDF-8 Protein (pro&latent)

Cat. No. GDF-HM208

Description

Source	Recombinant Human Latent GDF-8 Protein (pro&latent) is expressed from HEK293 with hFc (IgG1) tag at the N-terminus.
	It contains Asn24-Ser375.
Accession	O14793
Molecular Weight	The protein has a predicted MW of 66.04 kDa. Due to glycosylation, the protein migrates to 60-65 kDa and 70-85 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

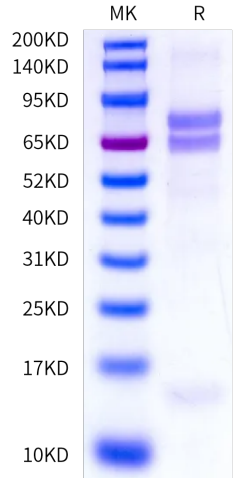
Formulation	Lyophilized from 0.22 μm filtered solution in PBS, 200mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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.

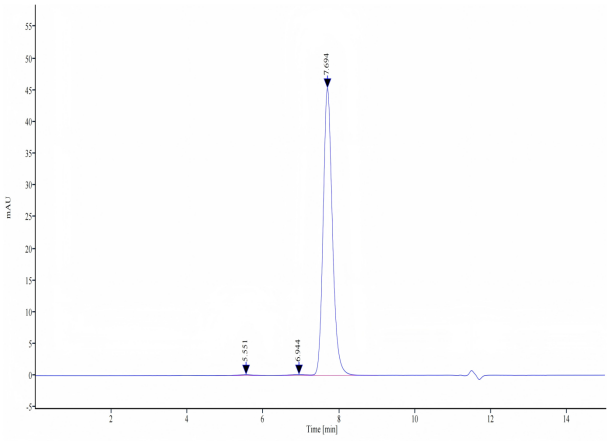
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Human Latent GDF-8 is greater than 95% as determined by SEC-HPLC.

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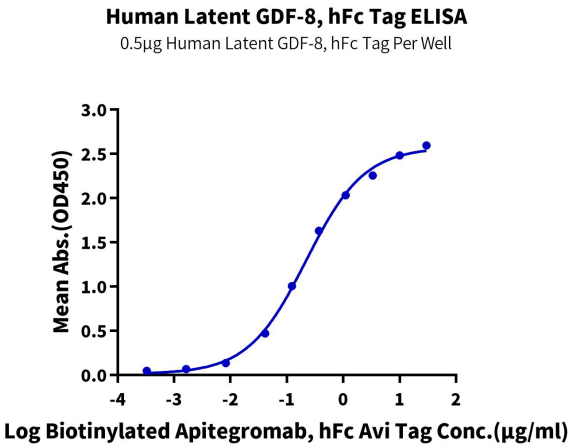
Assay Data

ELISA Data



Immobilized Human Latent GDF-8, hFc Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Apitegromab, hFc-Avi Tag with the EC50 of 0.22μg/ml determined by ELISA.

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