

Human Latent GDF-8 Protein

Cat. No. GDF-HM108

Description

Source	Recombinant Human Latent GDF-8 Protein is expressed from HEK293 with His tag at the N-terminus. It contains Asn24-Ser375.
Accession	O14793
Molecular Weight	The protein has a predicted MW of 41.19 kDa. Due to glycosylation, the protein migrates to 35-40 kDa and 45-55 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

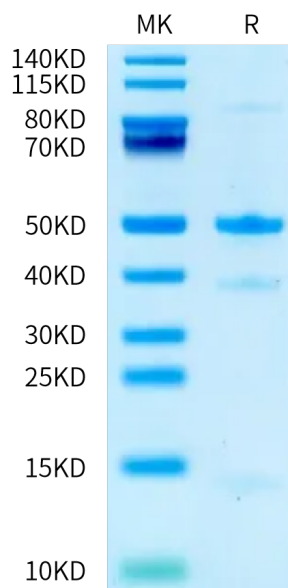
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
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

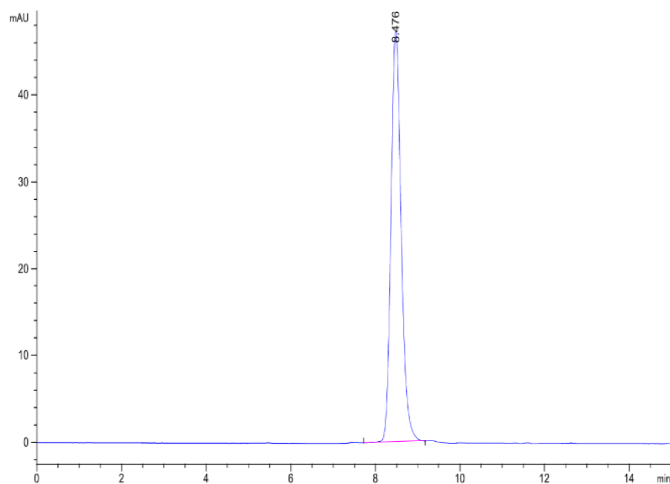
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

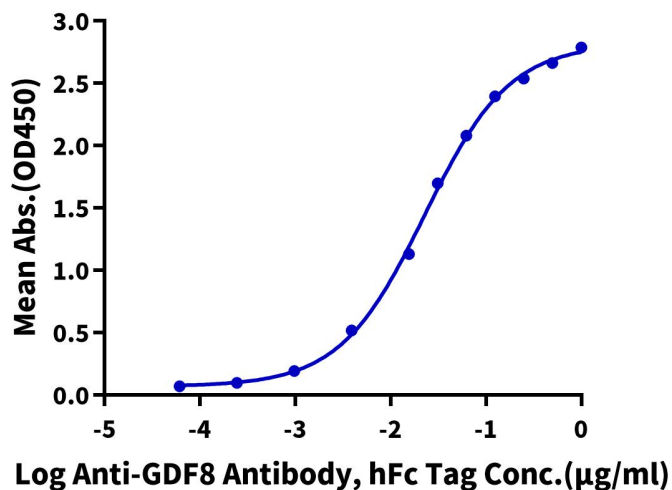


The purity of Human Latent GDF-8 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human Latent GDF-8, His Tag ELISA

0.1 µg Human Latent GDF-8, His Tag Per Well



Immobilized Human Latent GDF-8, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-GDF8 Antibody, hFc Tag with the EC50 of 22.8 ng/ml determined by ELISA (QC Test).