

Human Latent GDF-8 Protein

Cat. No. GDF-HM108



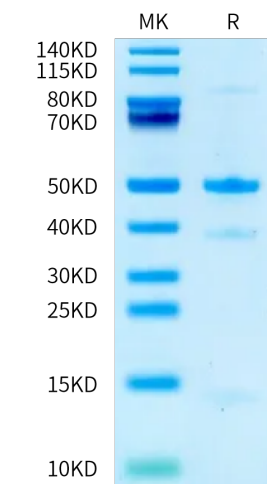
Description	
Source	Recombinant Human Latent GDF-8 Protein is expressed from HEK293 with His tag at the N-terminus. It contains Asn24-Ser375.
Accession	O14793
Molecular Weight	The protein has a predicted MW of 41.19 kDa. Due to glycosylation, the protein migrates to 35-40 kDa and 45-55 kDa based on Bis-Tris 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	Supplied as 0.22 µm filtered solution in PBS, 200mM L-Arginine (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. 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.	

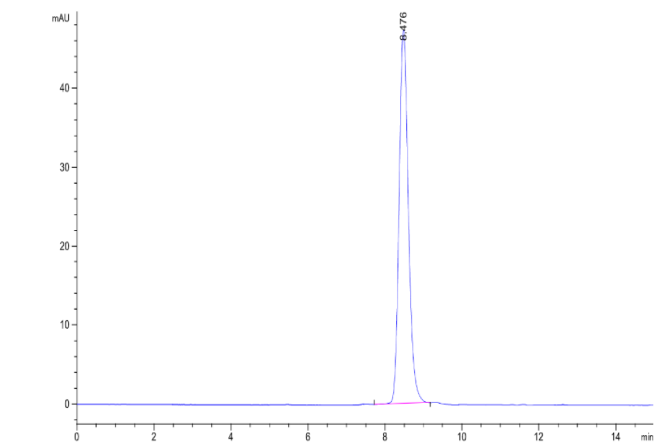
Assay Data

Bis-Tris PAGE



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

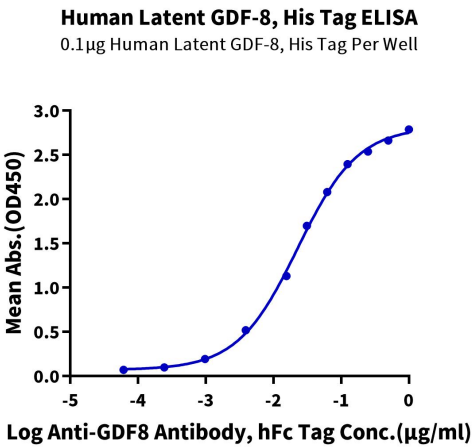
SEC-HPLC



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

Assay Data

ELISA Data



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).