# **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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

#### Formulation and Storage

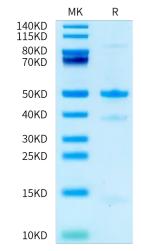
Formulation and Storage	
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months after reconstitution.2-8°C for 2-7 days 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  $TGF-\beta$  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.

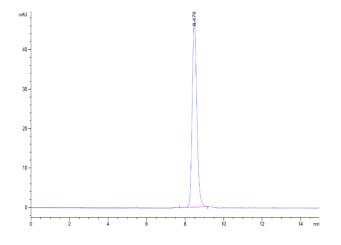
# **Assay Data**

### Tris-Bis PAGE



Human Latent GDF-8 on Tris-Bis 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.