

Rat Latent GDF-8 Protein

Cat. No. GDF-RM128

Description

Source	Recombinant Rat Latent GDF-8 Protein is expressed from HEK293 with His tag at the N-terminus. It contains Glu35-Ser376.
Accession	O35312
Molecular Weight	The protein has a predicted MW of 40.01 kDa. Due to glycosylation, the protein migrates to 14 kDa and 32-38 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 > 90% 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.

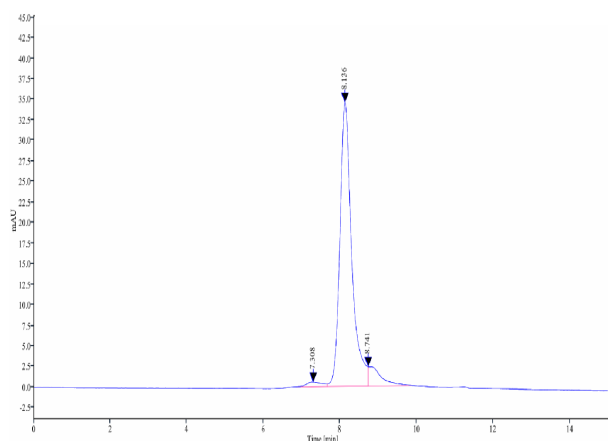
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



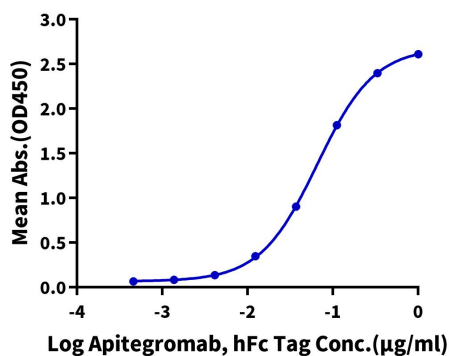
The purity of Rat Latent GDF-8 is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

Rat Latent GDF-8, His Tag ELISA

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

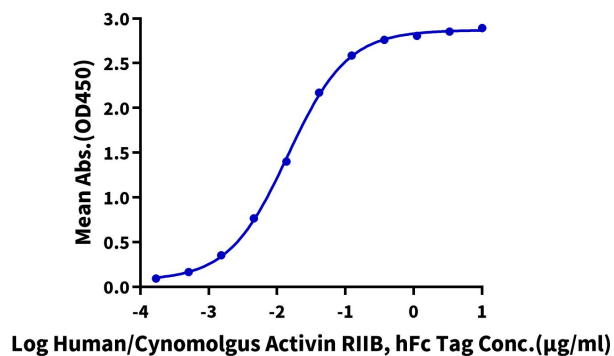


Immobilized Rat Latent GDF-8, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Apitegromab, hFc Tag with the EC50 of 65.4ng/ml determined by ELISA.

ELISA Data

Rat Latent GDF-8, His Tag ELISA

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



Immobilized Rat Latent GDF-8, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human/Cynomolgus Activin RIIB, hFc Tag with the EC50 of 14.4ng/ml determined by ELISA.