Mouse Latent GDF-8 Protein

Cat. No. GDF-MM128

Description

Source	Recombinant Mouse Latent GDF-8 Protein is expressed from HEK293 with His tag at the N-terminus.
	It contains Asn25-Ser376.
Accession	O08689
Molecular Weight	The protein has a predicted MW of 41.18 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

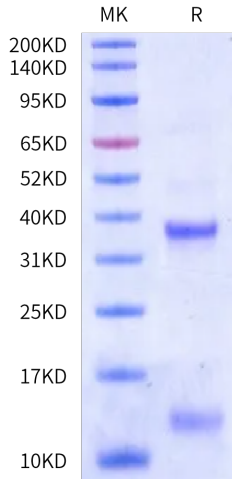
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

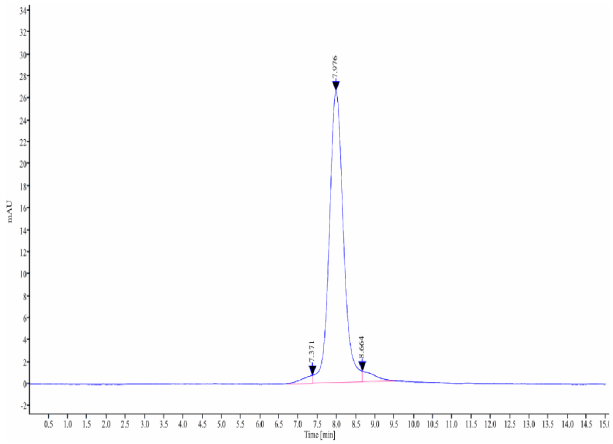
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

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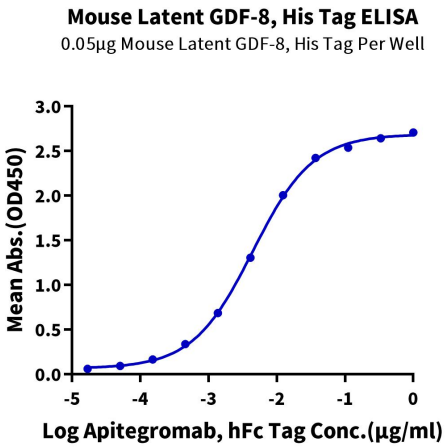
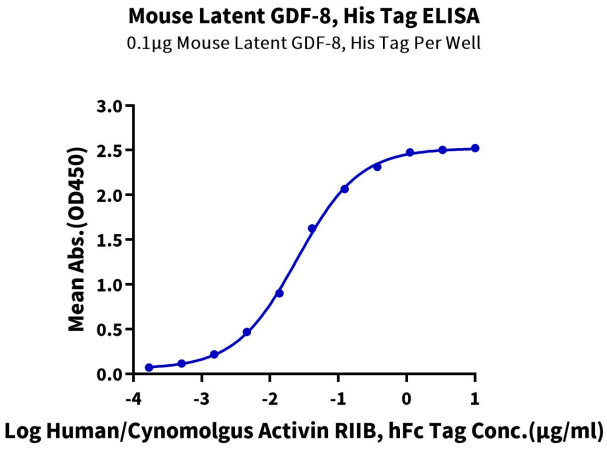
Assay Data

ELISA Data



Immobilized Mouse Latent GDF-8, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Apitegromab, hFc Tag with the EC50 of 4.5ng/ml determined by ELISA.

ELISA Data



Immobilized Mouse 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 25.1ng/ml determined by ELISA.