

Rev01
 Update: Apr,07,2025

DATASHEET

Latent GDF-8, His, Human

Cat. No.: Z05564

Product Introduction

Species	Human
Protein Construction	<div> <div>His</div> <div>Latent GDF-8 (Asn24-Ser375)_x000D_ Accession # O14793</div> </div> <div>N-termC-term</div>
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1 EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Latent GDF-8, His, Human at 1 µg/ml (100 µl/well) on the plate can bind AntiGDF8 Antibody, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	41.19 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 35-40 kDa and 45-55 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target 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.

Synonyms : Myostatin; GDF8; Latent GDF8; Mstn

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