

Human latent GDF-8 Protein, His Tag

Catalog # GD8-H5243AI



BIOSYSTEMS
Acro

Application

Human latent GDF-8 Protein, His Tag AIDD-Ready protein is designed for direct use in SPR assays. It is supplied in a sugar-free, glycerol-free formulation to eliminate refractive index interference in SPR. No desalting or buffer exchange is required before use, simplifying the SPR workflow and supporting high-throughput experimental validation to accelerate the transition from AI prediction to wet-lab validation.

Features and Advantages

- **Directly compatible with SPR:** No desalting or buffer exchange required; supplied as a liquid to reduce sample preparation and improve experimental efficiency.
- **High batch-to-batch consistency:** Each lot is released using SPR QC to ensure experimental reproducibility.
- **Validated with representative drugs:** SPR binding activity is validated using representative drug antibodies to ensure suitability for drug screening and evaluation.

Synonyms

GDF-8, Myostatin, GDF8, MSTN, Growth, differentiation factor 8

Source

Human latent GDF-8 Protein, His Tag (GD8-H5243AI) is expressed from human 293 cells (HEK293). It contains AA Asn 24 - Ser 375 (Accession # [O14793-1](#)).

Predicted N-terminus: His

Molecular Characterization

 GDF-8 Structure

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 42.0 kDa. The protein migrates as 35 kDa, 43-48 kDa and 65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Formulated in a proprietary trehalose-free buffer, supplied ready-to-use for SPR/BLI analysis - no buffer exchange required.

For detailed formulation, please refer to the batch-specific COA.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please avoid repeated freeze-thaw cycles.

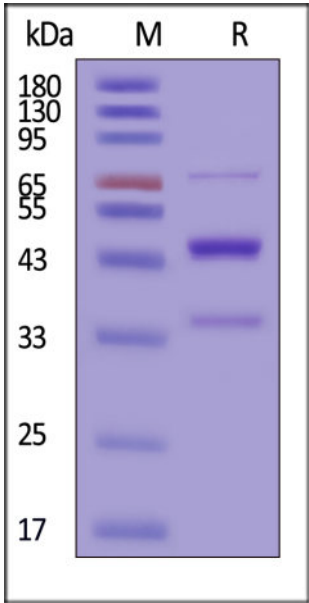
This product is stable after storage at:

- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

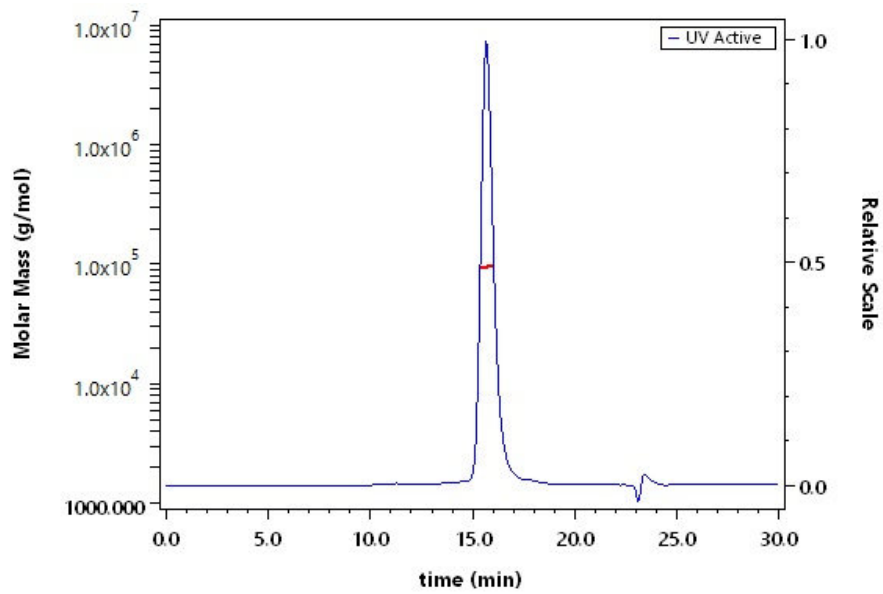
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



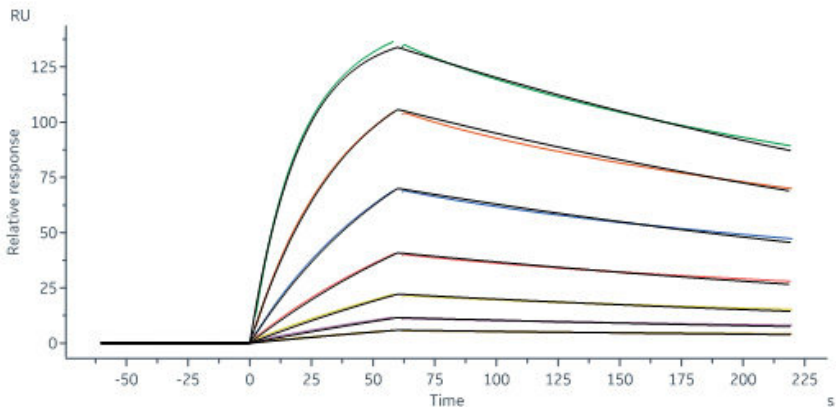
Human latent GDF-8 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human latent GDF-8 Protein, His Tag (Cat. No. GD8-H5243AI) is more than 90% and the molecular weight of this protein is around 80-100 kDa verified by SEC-MALS.

Activity-SPR



Apitegromab captured on Protein A Chip can bind Human latent GDF-8 Protein, His Tag (Cat. No. GD8-H5243AI) with an affinity constant of 5.78 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein negatively regulates skeletal muscle cell proliferation and differentiation. Mutations in this gene are associated with increased skeletal muscle mass in humans and other mammals. [provided by RefSeq, Jul 2016]

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