

# Biotinylated Human Mesothelin / MSLN (296-600) Protein, His,Avitag™ (MALS verified)

Catalog # MSN-H82E7



BIOSYSTEMS  
**Acro**

## Synonym

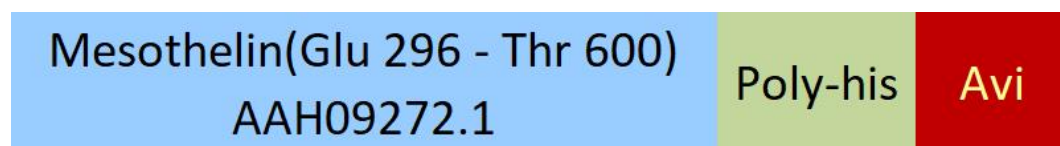
MSLN, Mesothelin, MPF

## Source

Biotinylated Human Mesothelin (296-600), His,Avitag (MSN-H82E7) is expressed from human 293 cells (HEK293). It contains AA Glu 296 - Thr 600 (Accession # [AAH09272.1](#)).

Predicted N-terminus: Glu 296

## Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 37.8 kDa. The protein migrates as 8 kDa and 42-50 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

**Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.**

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## Endotoxin

Less than 0.1 EU per µg by the LAL method / rFC method.

## Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

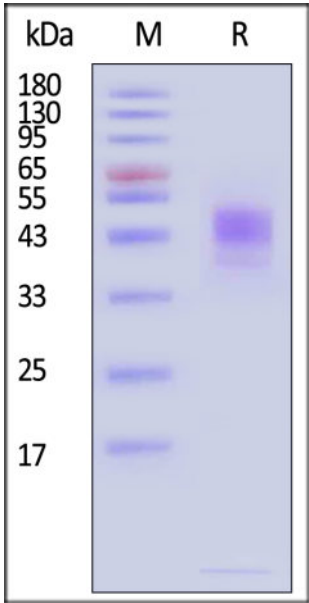
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

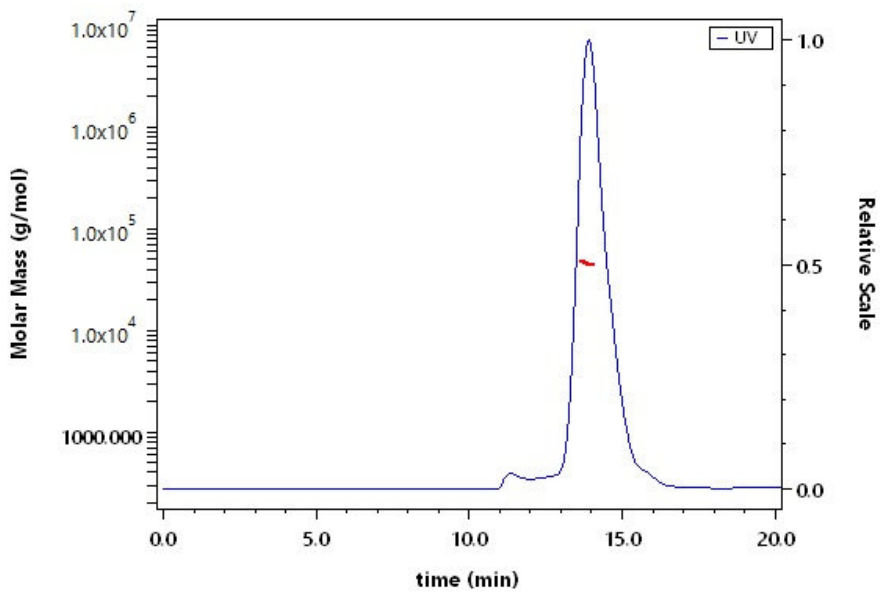
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Biotinylated Human Mesothelin (296-600), His,Avitag 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](#)).

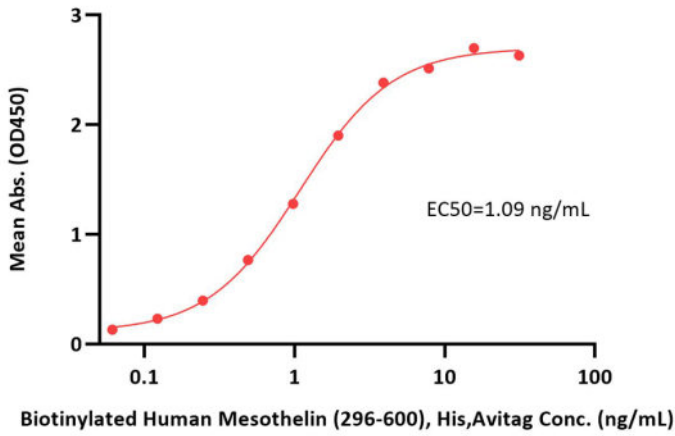
SEC-MALS



The purity of Biotinylated Human Mesothelin (296-600), His,Avitag (Cat. No. MSN-H82E7) is more than 95% and the molecular weight of this protein is around 35-53 kDa verified by SEC-MALS.

Bioactivity-ELISA

Biotinylated Human Mesothelin (296-600), His,Avitag ELISA  
0.1 µg of Monoclonal Anti-Human MSLN Antibody, Human IgG1 per well



Immobilized Monoclonal Anti-Human MSLN Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Human Mesothelin (296-600), His,Avitag (Cat. No. MSN-H82E7) with a linear range of 0.1-4 ng/mL (QC tested).

Background

Mesothelin (MSLN) is also known as CAK1 antigen, Pre-pro-megakaryocyte-potentiating factor, which belongs to the mesothelin family. Mesothelin / MSLN can be proteolytically cleaved into the following two chains by a furin-like convertase: Megakaryocyte-potentiating factor (MPF) and the cleaved form of mesothelin. Both MPF and the cleaved form of mesothelin are N-glycosylated. Mesothelin / MSLN can interacts with MUC16. The membrane-anchored forms of MSLN may play a role in cellular adhesion. MPF potentiates megakaryocyte colony formation in vitro.

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