

# Biotinylated Cynomolgus Mesothelin / MSLN Protein, His,Avitag™ (MALS verified)

Catalog # MSN-C82E3



BIOSYSTEMS  
**Acro**

## Synonym

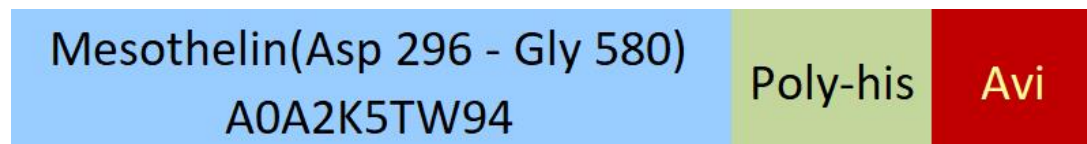
MSLN, Mesothelin, MPF

## Source

Biotinylated Cynomolgus Mesothelin Protein, His,Avitag (MSN-C82E3) is expressed from human 293 cells (HEK293). It contains AA Asp 296 - Gly 580 (Accession # [A0A2K5TW94](#)).

Predicted N-terminus: Asp 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 35.4 kDa. The protein migrates as 43-55 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.

## Purity

>90% as determined by SDS-PAGE.

>90% 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.**

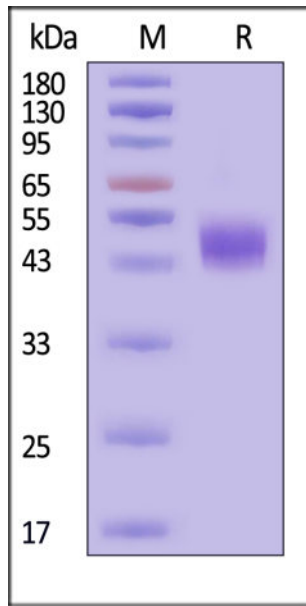
This product is stable after storage at:

- -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

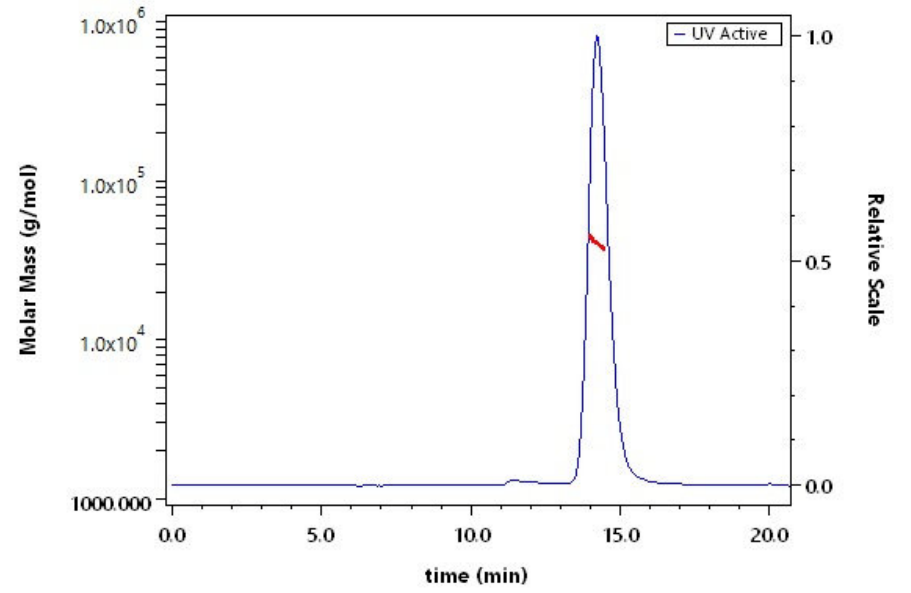
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



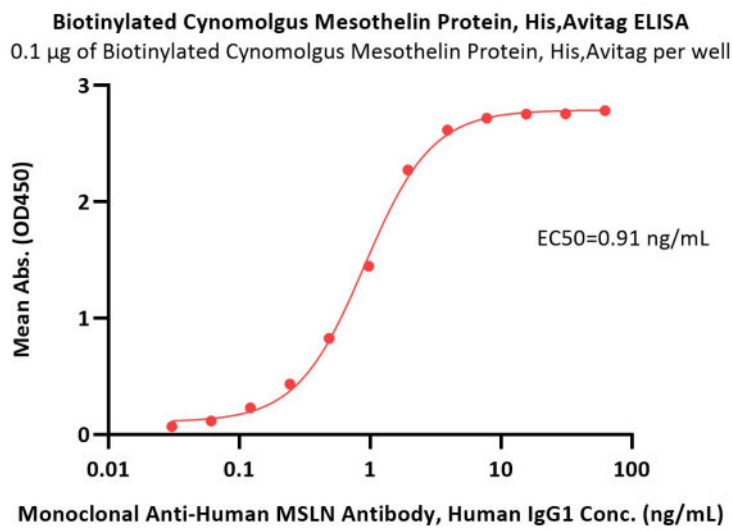
Biotinylated Cynomolgus Mesothelin Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Biotinylated Cynomolgus Mesothelin Protein, His,Avitag (Cat. No. MSN-C82E3) is more than 90% and the molecular weight of this protein is around 35-50 kDa verified by SEC-MALS.

## Bioactivity-ELISA



Immobilized Biotinylated Cynomolgus Mesothelin Protein, His,Avitag (Cat. No. MSN-C82E3) at 1  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) on streptavidin (Cat. No. STN-N5116) precoated (0.5  $\mu\text{g/well}$ ) plate can bind Monoclonal Anti-Human MSLN Antibody, Human IgG1 with a linear range of 0.03-2 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 interact 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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