

# Biotinylated Human Mesothelin / MSLN (296-580) Protein, Fc Tag, ultra sensitivity (primary amine labeling) (MALS verified)

Catalog # MSN-H826x



BIOSYSTEMS  
**Acro**

## Synonym

MSLN, Mesothelin, MPF

## Source

Biotinylated Human Mesothelin (296-580) Protein, Fc Tag, primary amine labeling (MSN-H826x) is expressed from human 293 cells (HEK293). It contains AA Glu 296 - Gly 580 (Accession # [AAH09272](#)). It is the biotinylated form of Human Mesothelin (296-580), Fc Tag (Cat. No. MSN-H526x).

## Molecular Characterization

Fc(Thr 106 - Lys 330) P01857	Mesothelin(Glu 296 - Gly 580) AAH09272
---------------------------------	---

### [Other Tags and Version Biotin & Other Labeled Version](#)

This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 59.1 kDa. The protein migrates as 60-68 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

**The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.**

## 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

>95% as determined by SDS-PAGE.

## 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:

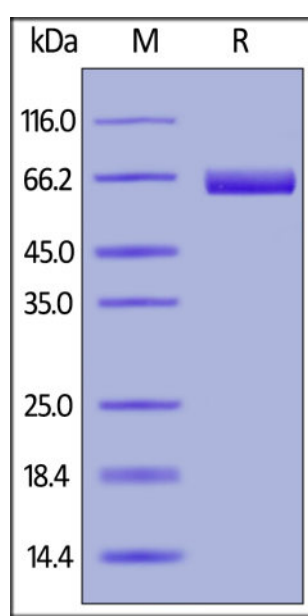
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

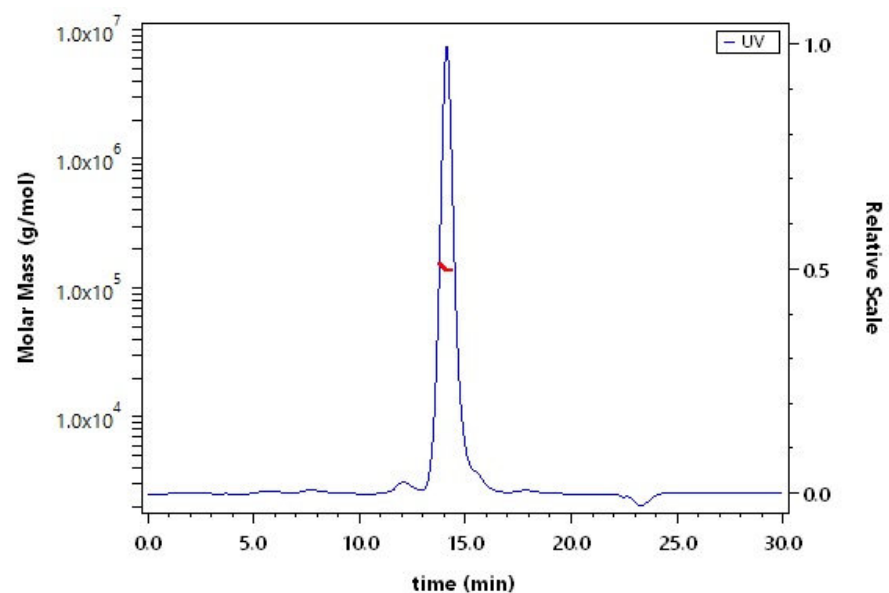
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE

## SEC-MALS



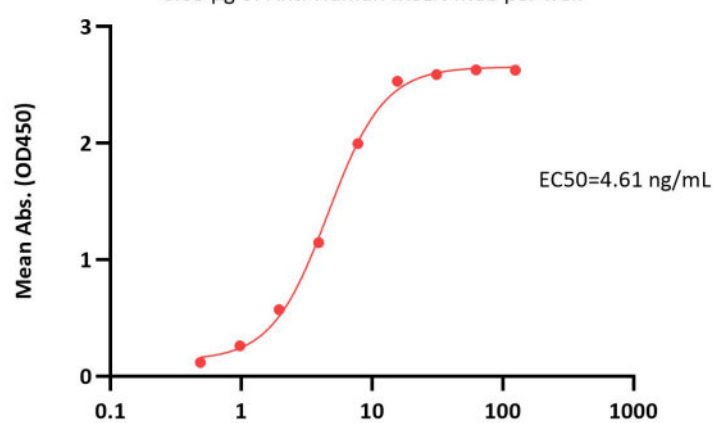
Biotinylated Human Mesothelin (296-580) Protein, Fc Tag, primary amine labeling on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.



The purity of Biotinylated Human Mesothelin (296-580) Protein, Fc Tag, primary amine labeling (Cat. No. MSN-H826x) is more than 85% and the molecular weight of this protein is around 125-153 kDa verified by SEC-MALS.

## Bioactivity-ELISA

Biotinylated Human Mesothelin (296-580) Protein, Fc Tag, primary amine labeling ELISA  
0.05 µg of Anti-Human MSLN Mab per well

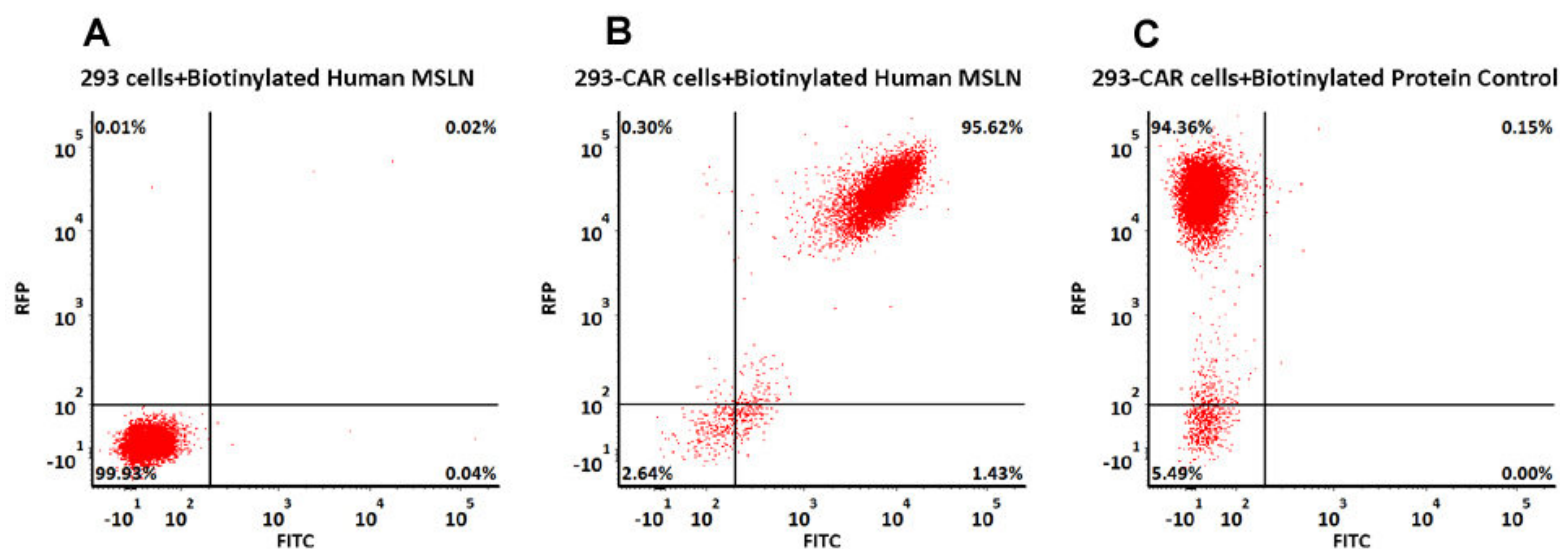


Biotinylated Human Mesothelin (296-580) Protein, Fc Tag, primary amine labeling Conc. (ng/mL)

Immobilized Anti-Human MSLN Mab at 0.5 µg/mL (100 µL/well) can bind Biotinylated Human Mesothelin (296-580) Protein, Fc Tag, primary amine labeling (Cat. No. MSN-H826x) with a linear range of 0.5-8 ng/mL (QC tested).

## Evaluation of CAR expression

### FACS Analysis of Anti-MSLN CAR Expression



293 cells were transfected with anti-MSLN-scFv and RFP tag. 2e5 of the cells were first stained with B. Biotinylated Human Mesothelin (296-580) Protein, Fc Tag, primary amine labeling (Cat. No. MSN-H826x, 3 µg/ml) and C. Biotinylated Protein Control, followed by FITC Streptavidin. A. Non-transfected 293 cells and C. Biotinylated Protein Control were used as negative control. RFP was used to evaluate CAR (anti-MSLN-scFv) expression and FITC was used to evaluate the binding activity of Biotinylated Human Mesothelin (296-580) Protein, Fc Tag, primary amine labeling (Cat. No. MSN-H826x).

## 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.



[www.acrobiosystems.com](http://www.acrobiosystems.com)