



## Synonym

MSLN, Mesothelin, MPF

## Source

FITC-Labeled Human Mesothelin (296-580), Fc Tag (Cat. No. MSN-HF253) is expressed from human HEK293 cells. It contains AA Glu 296 - Gly 580 (Accession # [AAH09272.1](#)). It is the FITC labeled form of Human Mesothelin (296-580), Fc Tag (Cat. No. MSN-H5253).

Predicted N-terminus: Glu 296

## Molecular Characterization

Mesothelin(Glu 296 - Gly 580) AAH09272.1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 58.6 kDa. The protein migrates as 60-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.*

## Protein Ratio

The FITC to protein molar ratio is 1-2.5.

## Endotoxin

Less than 1.0 EU per µg by the LAL 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 protect from light and avoid repeated freeze-thaw cycles.*

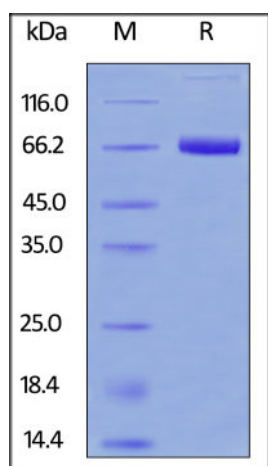
This product is stable after storage at:

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

## SDS-PAGE

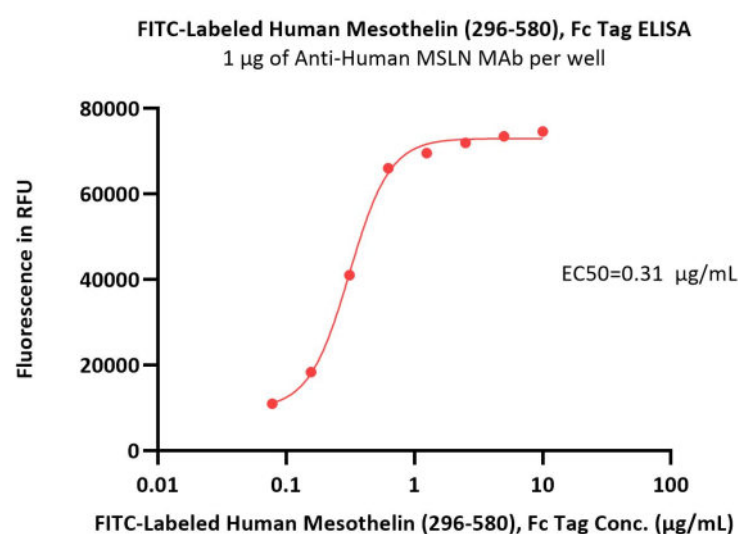
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and more!





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

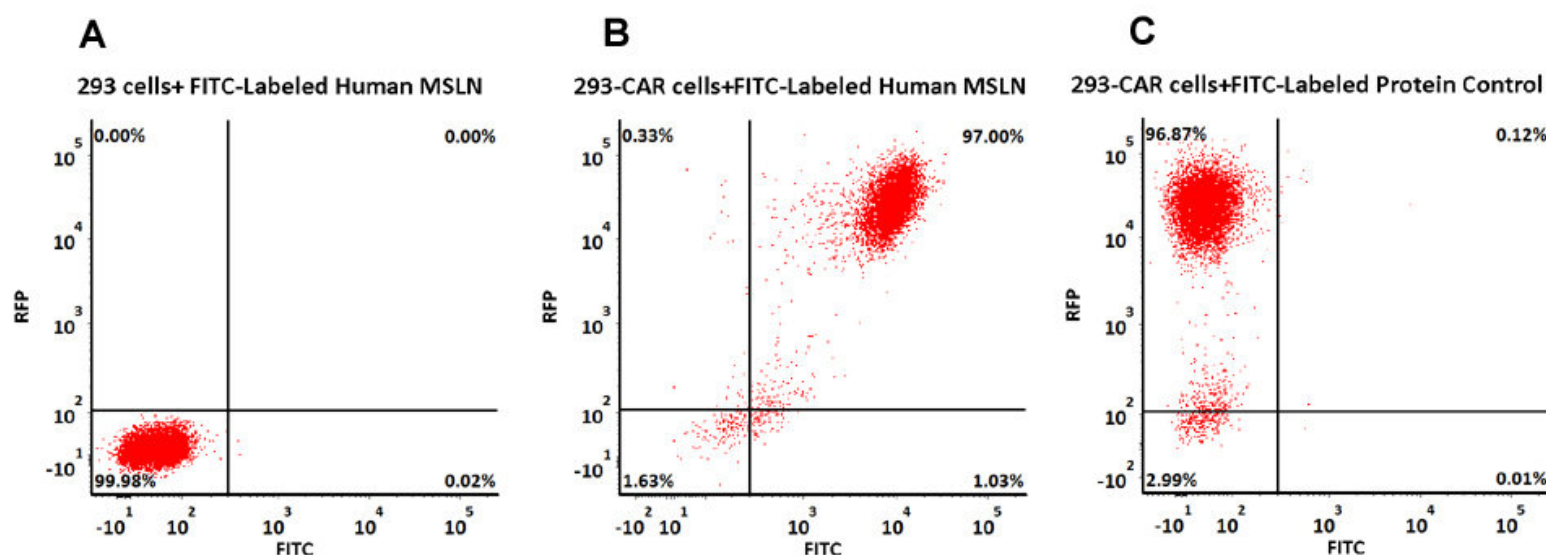
**Bioactivity-ELISA**



Immobilized Anti-Human MSLN MAb at 10 µg/mL (100 µL/well) can bind FITC-Labeled Human Mesothelin (296-580), Fc Tag (Cat. No. MSN-HF253) with a linear range of 0.078-0.625 µg/mL (Ex.488 nm/Em.535 nm) (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 stained with B. FITC-Labeled Human Mesothelin (296-580), Fc Tag (Cat. No. MSN-HF253, 1 µg/mL) and C. FITC-labeled protein control. A. Non-transfected 293 cells and C. FITC-labeled protein control were used as negative control. RFP



# FITC-Labeled Human Mesothelin / MSLN (296-580) Protein, Fc Tag

Catalog # MSN-HF253



BIOSYSTEMS  
**Acro**

was used to evaluate CAR (anti-MSLN-scFv) expression and FITC was used to evaluate the binding activity of FITC-Labeled Human Mesothelin (296-580), Fc Tag (Cat. No. MSN-HF253) (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.

## Clinical and Translational Updates

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