



## Synonym

MSLN, Mesothelin, MPF

## Source

Rat Mesothelin (298-600), His Tag (MSN-R52H4) is expressed from human 293 cells (HEK293). It contains AA Asp 298 - Ser 600 (Accession # [XP\\_032768340.1](#)).

Predicted N-terminus: Asp 298

## Molecular Characterization

Mesothelin(Asp 298 - Ser 600)	Poly-his
XP_032768340.1	

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

The protein has a calculated MW of 35.9 kDa. The protein migrates as 43-48 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22  $\mu$ m 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

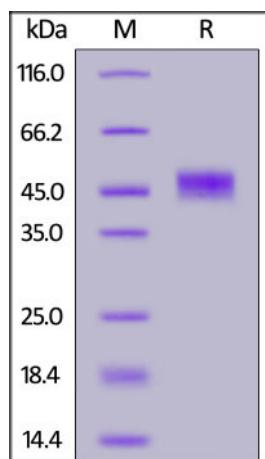
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

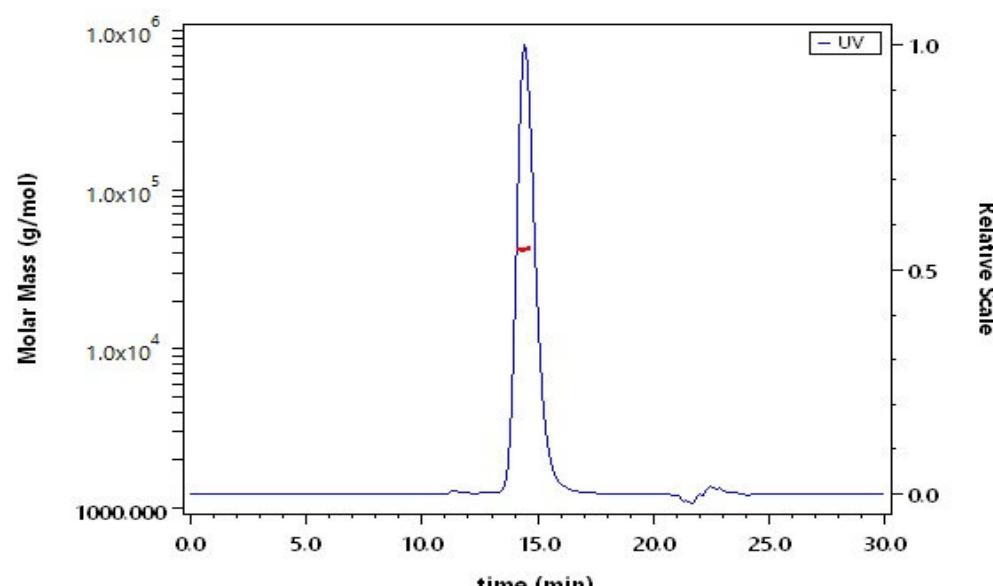
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Rat Mesothelin (298-600), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## SEC-MALS



The purity of Rat Mesothelin (298-600), His Tag (Cat. No. MSN-R52H4) is more than 95% and the molecular weight of this protein is around 34-52 kDa verified by SEC-MALS.

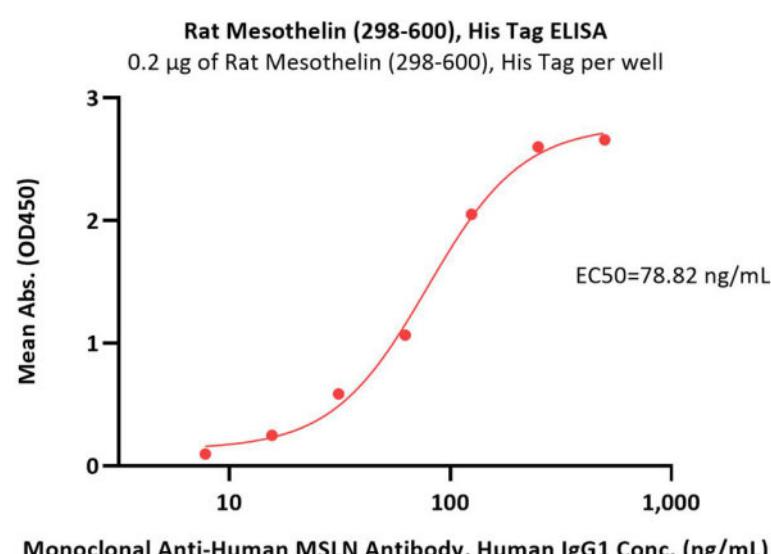
[Report](#)

## Bioactivity-ELISA

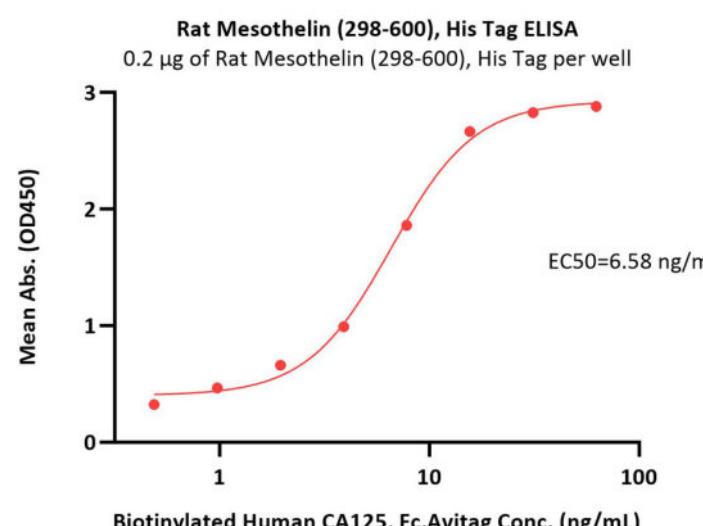
Discounts, Gifts,  
and more!



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

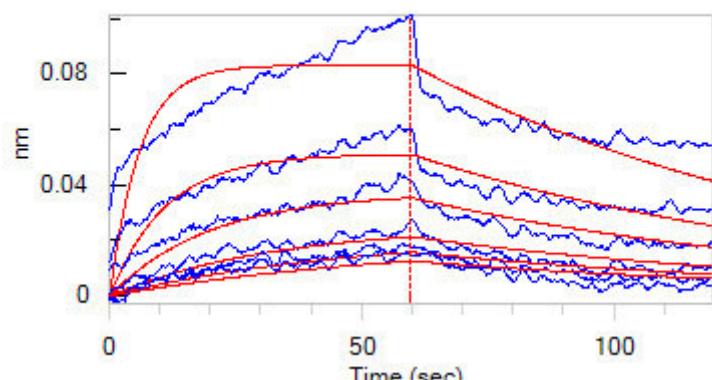


Immobilized Rat Mesothelin (298-600), His Tag (Cat. No. MSN-R52H4) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Human MSLN Antibody, Human IgG1 with a linear range of 8-125 ng/mL (QC tested).



Immobilized Rat Mesothelin (298-600), His Tag (Cat. No. MSN-R52H4) at 2 µg/mL (100 µL/well) can bind Biotinylated Human CA125, Fc,Avitag (Cat. No. CA5-H82F4) with a linear range of 0.5-16 ng/mL (Routinely tested).

### Bioactivity-BLI



Loaded Monoclonal Anti-Human MSLN Antibody, Human IgG1 on Protein A Biosensor, can bind Rat Mesothelin (298-600), His Tag (Cat. No. MSN-R52H4) with an affinity constant of 301 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely 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.

Discounts, Gifts,  
and more!

