

# **Biotinylated Recombinant Human Mesothelin/MSLN Protein**

Catalog No.: RP02448B Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot** Human 10232 013421-2

**Tags** C-His&Avi

Synonyms

MPF; SMRP; MSLN; SMRP

## **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by Tris-Bis PAGE;≥ 95 % as determined by

HPLC.

Calculated MW Observed MW

35.2 kDa 40-50 kDa

#### **Endotoxin**

< 1 EU/ $\mu g$  of the protein by LAL method.

## **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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# Background

Mesothelin, also known as MSLN, is a protein that in humans is encoded by the MSLN gene. Cloning studies showed that the mesothelin gene encodes a precursor protein that is processed to yield mesothelin which is attached to the cell membrane by a glycophosphatidylinositol linkage and a 31-kDa shed fragment named megakaryocyte-potentiating factor (MPF). Although it has been proposed that mesothelin may be involved in cell adhesion, its biological function is not known. A knockout mouse line that lacks mesothelin reproduces and develops normally.

## **Basic Information**

### **Description**

Biotinylated Recombinant Human Mesothelin/MSLN Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Glu296-Gly580) of Human Mesothelin fused with a His tag and Avi tag at the C-terminal.

## **Bio-Activity**

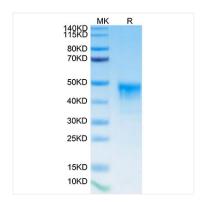
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

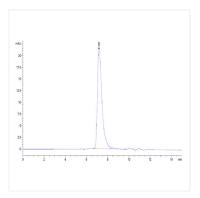
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

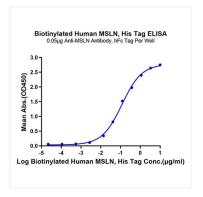
# **Validation Data**



Biotinylated Recombinant Human Mesothelin/MSLN Protein was determined by Tris-Bis PAGE under reducing conditions with Coomassie Blue.



The purity of Biotinylated Human MSLN was greater than 95% as determined by SEC-HPLC.



Immobilized Anti-MSLN Antibody at 0.5 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Human MSLN, His Tag with the EC<sub>50</sub> of 0.12 $\mu$ g/ml determined by ELISA.