

Human MSLN/Mesothelin Protein

Cat. No. MSL-HM20D

Description

| | |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Source | Recombinant Human MSLN/Mesothelin Protein is expressed from HEK293 with hFc tag at the C-terminus. It contains Ala488-Ser600. |
| Accession | Q13421-1 |
| Molecular Weight | The protein has a predicted MW of 39.30 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Tris-Bis PAGE result. |
| Endotoxin | Less than 1EU per μg by the LAL method. |
| Purity | > 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC |

Formulation and Storage

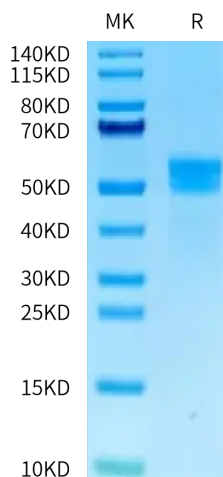
| | |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

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 glycosphosphatidylinositol 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.

Assay Data

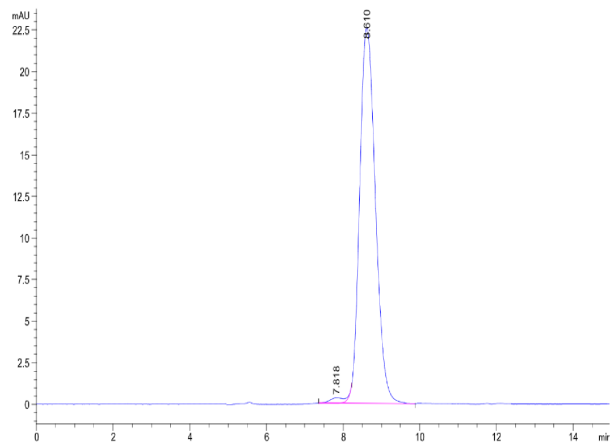
Tris-Bis PAGE



Human MSLN on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



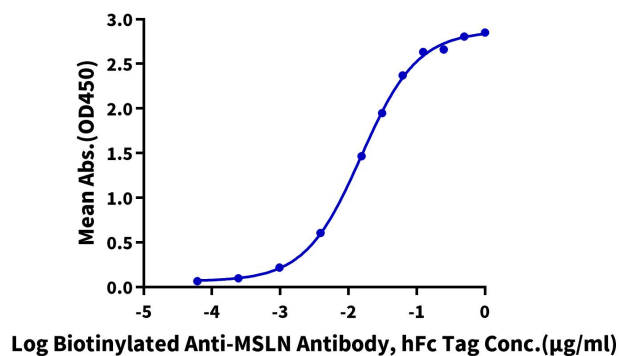
The purity of Human MSLN is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human MSLN, hFc Tag ELISA

0.1µg Human MSLN, hFc Tag Per Well



Immobilized Human MSLN, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-MSLN Antibody, hFc Tag with the EC50 of 15.5ng/ml determined by ELISA.