

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

Catalog # AMS.MSN-H5253

For Research Use Only

Description

Source Human Mesothelin, Fc Tag (MSN-H5253) is expressed from human 293 cells (HEK293). It contains AA Glu 296 - Gly 580 (Accession # AAH09272.1). Predicted N-terminus: Glu 296

Predicted N-terminus Glu 296

Protein Structure

Mesothelin(Glu 296 - Gly 580) AAH09272.1	Fc(Pro 100 - Lys 330) P01857
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Molecular Characterization 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 66-85 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin Less than 1.0 EU per µg by the LAL method.

Purity >90% as determined by SDS-PAGE.

Bioactivity Measured by its binding ability in a functional ELISA. Immobilized Human Mesothelin, Fc Tag (Cat. No. MSN-H5253) at 2 µg/mL (100 µL/well) can bind Anti-MSLN Mab, Human IgG1 with a linear range of 0.2-3 ng/mL (QC tested).

Formulation and Storage

Formulation Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. Normally trehalose is added as protectant before lyophilization.

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.

No activity loss was observed after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Background

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.

References

- (1) Chang K., et al., 1996, Proc. Natl. Acad. Sci. U.S.A. 93:136-140.
- (2) Yamaguchi N., et al., 1994, J. Biol. Chem. 269:805-808.
- (3) Rump A., et al., 2004, J. Biol. Chem. 279:9190-9198.
- (4) Ma J., et al., 2012, J. Biol. Chem. 287:33123-33131.

Please contact us if you have any questions about this product.

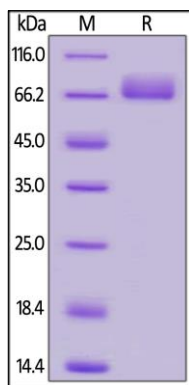
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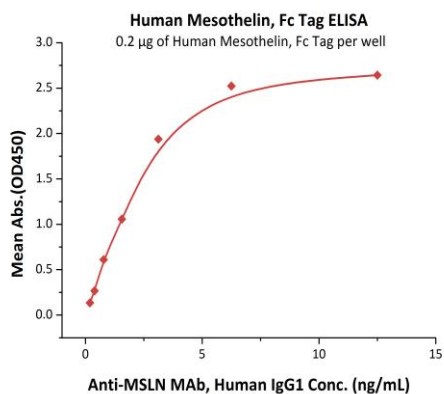
Assay Data

SDS-PAGE Data



Human Mesothelin, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity Data



Immobilized Human Mesothelin, Fc Tag (Cat. No. MSN-H5253) at 2 µg/mL (100 µL/well) can bind Anti-MSLN MAb, Human IgG1 with a linear range of 0.2-3 ng/mL (QC tested).

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