

MSLN/Mesothelin Protein, Human, Recombinant (His)

General Information

Synonyms:	SMRP;CAK1;MPF
Protein Construction:	A DNA sequence encoding the human MSLN (AAH09272.1) (Glu296-Gly580) was expressed with a polyhistidine tag at the C-terminus.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q13421
Molecular Weight:	33.62 kDa (predicted)

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Loaded Anti-MSLN Antibody, human IgG1 on ProA Biosensor, can bind MSLN/Mesothelin Protein, Human, Recombinant (His) (Cat#TMPY-07107) with an affinity constant of 0.965 nM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested).2. Immobilized Anti-MSLN Antibody, human IgG1 at 2 µg/mL (100 µL/well) can bind MSLN/Mesothelin Protein, Human, Recombinant (His) (Cat#TMPY-07107), the EC50 is 1.0-3.0 ng/mL.
Purity:	≥ 95% as determined by SDS-PAGE. ≥ 85% as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:

Please refer to the lot-specific COA.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The megakaryocyte potentiating factor belongs to the mesothelin family. This family is comprised of several mammalian pre-pro-megakaryocyte potentiating factor precursor (MPF) or mesothelin proteins. Mesothelin is a glycosylphosphatidylinositol-linked glycoprotein highly expressed in mesothelial cells, mesotheliomas, and ovarian cancer, but the biological function of the protein is not known. Megakaryocyte potentiating factor is highly expressed in mesotheliomas, ovarian cancers, and some squamous cell carcinomas (at protein level). It interacts with MUC16 and potentiates megakaryocyte colony formation in vitro. Megakaryocyte potentiating factor is secreted by several mesothelioma cell lines and is frequently elevated in the blood of patients with mesothelioma. Measurement of this protein may be useful in following the response of mesothelioma to treatment. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

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