

Recombinant Mouse Msln Protein, Fc-tagged

Cat. No. Msln-35M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Msln(Glu296 - Ser592) fused with Fc from human IgG1 at C-terminal tag was expressed in HEK293.

Species Mouse

Source HEK293

ProteinLength Glu296 - Ser592

Description

Mesothelin (MSLN) is a glycosylphosphatidylinositol (GPI)-anchored glycoprotein that is expressed on mesothelial cells in the pleura, pericardium and peritoneum. It is overexpressed in mesotheliomas, ovarian and pancreatic cancers as well as in specific squamous cell carcinomas. The MSLN gene encodes a precursor protein that is cleaved into two products, megakaryocyte-potentiating factor (MPF) and MSLN. MPF is secreted and functions as a cytokine that can stimulate colony formation in bone marrow megakaryocytes. The cleaved form of MSLN remains GPI-anchored on cell-surface and may function as a cell adhesion molecule. Alternative splicing results in multiple transcript variants. Two variant forms exist; variant 1 has an eight amino acid insertion and is rarely expressed, while variant 2 is a truncated form found in cancers but rarely detected in normal individuals. MSLN interacts with CA125/MUC16 and potentiates megakaryocyte colony formation in vitro. MSLN 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.

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Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4
Molecular Mass	Calculated molecular mass (kDa): 60.3; Estimated by SDS-PAGE under reducing condition (kDa): 65-70
Endotoxin	<0.1 EU per 1 µg of purified recombinant protein determined by the LAL method
Purity	>95% judged by SDS-PAGE under reducing condition
Storage	Upon receipt, centrifuge the product briefly before opening the vial. Store small aliquots at the temperature below -20 centigrade for long-term storage and the product is stable for at least 3 months. Avoid repeated free-thaw cycles.
Shipping	Ship at 4 centigrade

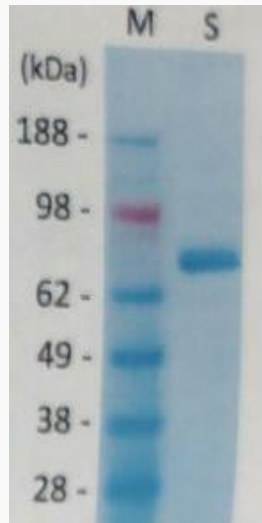
GENE INFORMATION

Gene Name	Msln mesothelin [<i>Mus musculus</i>]
Official Symbol	Msln
Synonyms	MSLN; mesothelin; megakaryocyte potentiating factor; pre-pro-megakaryocyte-potentiating factor; MPF;
Gene ID	56047
mRNA Refseq	NM_018857
Protein Refseq	NP_061345
UniProt ID	Q61468

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