

Active Recombinant Human MSLN Protein, Fc-tagged

Cat. No. MSLN-528H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human MSLN(Glu296 - Ser592) fused with Fc from human IgG1 at C-terminal tag was expressed in HEK293.

Species

Human

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 (carrier & preservative free).
Bio-activity	Binds to CA125/MUC16 and anti-MSLN monoclonal antibody, human IgG1 with high affinity. Blocks MSLN's binding to CA125/MUC16.
Molecular Mass	Calculated molecular mass (kDa): 60.1; Estimated by SDS-PAGE under reducing condition (kDa): 65-70
AA Sequence	EVEKTACPSGKKAREIDESLIFYKKWELEACVDAALLATQMDRVNAIPFTYEQLDVLK HKLDELYPQGYPESVIQHLGYLFLKMSPEDIRKWNVTSLLETLKALLEVNKGHEMSPQ VATLIDRFVKGRGQLDKDTLDTLTAFYPGYLCSLSPEELSSVPPSSIWAVRPQDLDT CDPRLQDLVLYPKARLAFQNMNGSEYFVKIQSFLGGAPTEDLKALSQQNVSMDLATF MKLRTDAVLPLTVAEVQKLLGPHVEGLKAEERHRPVRDWILRQRQDDLDTLGLGLQ GGIPNGYLVLDLSTTENLYFQGSGTGHTCPPCPAPELLGGPSVFLFPPKPKDTLMISR TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLT CLVKGFYPSDIAVEWESNGQPENNYKTTTPPVLDSDGSFFLYSKLTVDKSRWQQGN VFSCSVMHEALHNHYTQKSLSLSPGK
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

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Gene Name	MSLN mesothelin [Homo sapiens]
Official Symbol	MSLN
Synonyms	MSLN; mesothelin; CAK1; MPF; CAK1 antigen; megakaryocyte potentiating factor; soluble MPF mesothelin related protein; pre-pro-megakaryocyte-potentiating factor; SMRP;
Gene ID	10232
mRNA Refseq	NM_001177355
Protein Refseq	NP_001170826
MIM	601051
UniProt ID	Q13421

