

Active Recombinant Mouse Msln protein, His-tagged

Cat. No. Msln-32M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Msln(Asp298-Ser600) fused with His tag at C-terminal was expressed in CHO.

Species Mouse

Source CHO

ProteinLength Asp298-Ser600

Description

Mesothelin, also known as CAK1 and ERC, is derived from a 70 kDa precursor that also includes Megakaryocyte Potentiating Factor (MPF). The 70 kDa precursor is expressed on the cell surface where it is cleaved at a dibasic proteolytic site to release the 32 kDa glycosylated MPF. MPF is a cytokine that potentiates IL-3 induced megakaryocyte colony formation. The term Mesothelin refers to the 40 kDa glycosylated protein which remains attached to the cell surface via a GPI linkage. Mesothelin is normally expressed on mesothelial cells in the pleura, pericardium, and peritoneum as well as in the developing and postnatal pancreas. It is up-regulated in mesotheliomas and a range of carcinomas and adenomas. Mesothelin promotes tumor cell proliferation, migration, anchorage-independent growth, and tumor progression, in part through the up-regulation of MMP-7. It is co-expressed with the tumor antigen CA125/MUC16 on advanced ovarian adenocarcinomas and interacts with this molecule to support cell adhesion. A soluble form of Mesothelin, with its GPI anchor intact, is released from tumor cells and binds to MMR/CD206 on macrophages.

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Predicted N Terminal	Asp298
Form	Lyophilized from a 0.2 µm filtered solution in PBS with trehalose.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse Mesothelin is immobilized at 2 µg/mL (100 µL/well), the concentration of Recombinant Human CA125/MUC16 that produces 50% optimal binding response is approximately 0.4-2.4 ng/mL.
Molecular Mass	Predicted Molecular Mass: 35 kDa; SDS-PAGE: 38-55 kDa, reducing conditions.
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE with silver staining
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 250 µg/mL in PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	Msln mesothelin [<i>Mus musculus</i>]
Official Symbol	Msln

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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
Chromosome Location	17; 17 A3.3

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