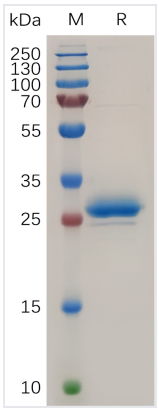
MESOTHELIN Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mesothelin, Recombinant Protein
Full Product Name	Human Mesothelin(37-286) Protein, His Tag
Product Gene Name	Mesothelin recombinant protein
Product Synonym Names	CAK1 antigen; Pre-pro-megakaryocyte-potentiating factor; MPF
Host	HEK293
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Purity/Purification	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	68,986 Da
OMIM	601051
3D Structure	ModBase 3D Structure for Q13421
Tag	C-6×His tag
Product Categories/Family for Mesothelin recombinant protein	Bioactive Protein
Related Product Information for Mesothelin recombinant protein	Recombinant human Mesothelin(37-286) protein with C-terminal 6×His tag This gene encodes a preproprotein that is proteolytically processed to generate two protein products, megakaryocyte potentiating factor and mesothelin. Megakaryocyte potentiating factor functions as a cytokine that can stimulate colony formation of bone marrow megakaryocytes. Mesothelin is a glycosylphosphatidylinositol-anchored cell-surface protein that may function as a cell adhesion protein. This protein is overexpressed in epithelial mesotheliomas, ovarian cancers and in specific squamous cell carcinomas. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]
Other Notes	Small volumes of Mesothelin recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Mesothelin purchase	MBS189062 is a recombinant protein targeting Mesothelin. Also known as Human Mesothelin(37-286) Protein, His Tag. Host: HEK293.



SDS-Page of Mesothelin recombinant protein
Figure 1. Human Mesothelin(37-286) Protein, His Tag on SDS-PAGE under reducing condition.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Mesothelin. It may not necessarily be applicable to this product.

NCBI GI #	53988378
NCBI GeneID	10232
NCBI Accession #	NP_005814.2
UniProt Primary Accession #	Q13421
UniProt Secondary Accession #	Q14859; Q4VQD5; Q96GR6; Q96KJ5; Q9BR17; Q9BTR2; Q9UCB2; Q9UK57; D3DU65
UniProt Related Accession #	Q13421
GenBank Nucleotide #	NM_005823.5
NCBI Official Full Name	mesothelin isoform 1 preproprotein
NCBI Official Synonym Full Names	mesothelin
NCBI Official Symbol	MSLN
NCBI Official Synonym Symbols	MPF; SMRP
UniProt Protein Name	Mesothelin
UniProt Synonym Protein Names	CAK1 antigen; Pre-pro-megakaryocyte-potentiating factor
Protein Family	Mesothelin
UniProt Gene Name	MSLN
UniProt Synonym Gene Names	MPF; MPF
UniProt Entry Name	MSLN_HUMAN
NCBI Protein Information	mesothelin; CAK1 antigen; megakaryocyte potentiating factor; soluble MPF mesothelin related protein; pre-pro-megakaryocyte-potentiating factor
NCBI Summary for Mesothelin	This gene encodes a precursor protein that is cleaved into two products, megakaryocyte potentiating factor and mesothelin. Megakaryocyte potentiation factor functions as a cytokine that can stimulate colony formation in bone marrow megakaryocytes. Mesothelian is a glycosylphosphatidylinositol-anchored cell-surface protein that may function as a cell adhesion protein. This protein is overexpressed in epithelial mesotheliomas, ovarian cancers and in specific squamous cell carcinomas. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010]

UniProt Comments for Mesothelin	MSLN: Membrane-anchored forms may play a role in cellular adhesion. Antibodies against MSLN are detected in patients with mesothelioma and ovarian cancer. Belongs to the mesothelin family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, GPI anchor; Cell adhesion Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: Golgi apparatus; extracellular space; cell surface; membrane; plasma membrane Molecular Function: protein binding Biological Process: pancreas development; cell adhesion
Research Articles on Mesothelin	**1.** Use of S100P and mesothelin in cytologically borderline cases can increase the diagnostic accuracy for pancreatic adenocarcinoma.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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