

MSLN/Mesothelin Protein, Human, Recombinant (His), AF647-Labeled

General Information

Synonyms:	CAK1;MPF;SMRP
Protein Construction:	A DNA sequence encoding the human MSLN (AAH09272.1) (Glu296-Gly580) was expressed with a C-terminal polyhistidine tag. The protein is site-specifically conjugated with AF 647 (Excitation Max.= 655 nm, Emission Max.= 680 nm).
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q13421
Molecular Weight:	38 kDa (predicted)

QC Testing

Biological Activity:	<p>1. Flow cytometric analysis of anti-Mesothelin CAR expression. 293 cells were transiently transduced with anti-Mesothelin CAR. Flow cytometric analysis was performed with MSLN/Mesothelin Protein, Human, Recombinant (His), AF647-Labeled (Cat#TMPY-07109). Non-transduced 293 cells were used as a control (left).</p> <p>2. Binding activity of AF 647-conjugated Mesothelin protein to PBMC cells. PBMC cells were stained with anti-CD3 antibody and MSLN/Mesothelin Protein, Human, Recombinant (His), AF647-Labeled (Cat#TMPY-07109) and detected by flow cytometry. PBMC cells stained with anti-CD3 antibody were used as a control (left).</p>
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	This product is Lyophilized from sterile PBS, pH 7.4, with 5 %-8 % trehalose. Please contact us for any concerns or special requirements. 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:	Twelve months from date of receipt at -20°C to -70°C in lyophilized form and 3 months at -70°C under sterile conditions after reconstitution. Protect from prolonged exposure to light and avoid repeated freeze-thaw cycles. <small>Actual storage temperature shall be subject to the COA.</small>
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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