

MPF Protein, Human, Recombinant (His)

General Information

Synonyms:	SMR;Pre-pro-megakaryocyte-potentiating factor;mesothelin;MSLN;MPF;Megakaryocyte potentiating factor;soluble MPF mesothelin related protein;CAK1;CAK1 antigen
Protein Construction:	Leu37-Arg286
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q13421
Molecular Weight:	30-35 KDa (reducing condition)
AA Sequence:	Leu37-Arg286

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Mesothelin is a cell surface glycoprotein whose expression is limited to mesothelial cells of the serosa (pleura, pericardium, and peritoneum) and epithelial cells of the trachea, tonsils, fallopian tube, and kidneys. Mesothelin plays an important role in cell survival, proliferation, migration, invasion, tumor progression, and resistance to chemotherapy. The overexpression of mesothelin can activate NF-κB and signal transducer and activator of transcription 3 (Stat3), inhibit apoptotic signaling and TNF-α-induced apoptosis, and accelerate the G1-S

transition. Mesothelin is also found overexpressed in various cancers, including malignant mesothelioma, pancreatic or ovarian carcinoma, sarcomas and in some gastrointestinal or pulmonary carcinomas. As a result of its limited expression in normal tissues, mesothelin has been reported as an ideal tumor-associated marker for the development of targeted therapy.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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