

TECHNICAL DATA SHEET

Recombinant Human MPF (Carrier-free)

Catalog Number: 21-9228

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human MPF (Carrier-free)

DESCRIPTION

Mesothelin is a glycosylphosphatidylinositol (GPI)-anchored, cell-surface glycoprotein predominantly secreted by cells of the mesothelium. Proteolytic cleavage of Mesothelin yields a soluble, polypeptide fragment designated megakaryocyte potentiating factor (MPF). MPF is a cytokine that potentiates IL-3 induced megakaryocyte colony formation in mouse bone marrow cell cultures. Mesothelin is also found overexpressed in various cancers, including malignant mesothelioma, pancreatic or ovarian carcinoma, sarcomas, and some gastrointestinal or pulmonary carcinomas. As a result of its limited expression in normal tissues, mesothelin has been reported as a useful tumor-associated marker. Recombinant Human MPF is the 250 amino acid-length fragment of the Mesothelin sequence and has a calculated molecular weight of approximately 26.7 kDa. As a result of glycosylation, Recombinant Human MPF migrates with an apparent molecular mass of approximately 32-33 kDa by SDS-PAGE gel, under reducing and non-reducing conditions.

MOLECULAR MASS

26.7 kDa

AMINO ACID SEQUENCE

LAGETGQEAA PLDGVLNPP NISLSPRQL LGFPCA EVSG LSTERVRELA VALAQKNVKL STEQLRCLAH RLSEPPEDLD ALPLDLLLFL NPDAFSGPQA
 CTRFFSRITK ANVDLLPRGA PERQRLLPAA LACWGVVRSGL LSEADVRLG GLACDLPGRF VAESA EVLLP RLVSCPGLD QDQQAARAA
 LQGGPPYGP PSTWSVSTMD ALRGLLPVLG QPIIRSIPQG IVAAWRQRSS RDPSWRQPER

SOURCE

CHO

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

N/A

BIOACTIVITY

N/A

RESEARCH AREAS

Cancer, Stem Cells & Differentiation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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