

**TECHNICAL DATA SHEET**

**Recombinant Human MIA (Carrier-Free)**

Catalog Number: 21-9086

**RPx-Pro™ Recombinant Protein**  
**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human MIA (Carrier-Free)

**DESCRIPTION**

MIA is the first discovered member of a family of secreted cytokines termed the MIA/OTOR family. The four known members of this family, MIA, MIA-2, OTOR and TANGO, each contain a Src homology-3 (SH3)-like domain. MIA is an autocrine growth regulatory protein, secreted from chondrocytes and malignant melanoma cells, that promotes melanoma metastasis by binding competitively to fibronectin and laminin.

**MOLECULAR MASS**

Recombinant Human MIA is a 12.2 kDa globular protein containing 108 amino acid residues, including two intramolecular disulfide bonds.

**AMINO ACID SEQUENCE**

MGPMPKLADR KLCADQEC SH PISMAVALQD YMAPDCRFLT IHRGQVVYVF SKLKGRGRFLF WGGSVQGDYY GDLAARLGYF PSSIVREDQT LKPGKVDVKT DKWDFY CQ

**SOURCE**

E.coli

**APPLICATIONS**

Bioassay

**PURITY**

98 %

**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 (<1EU/µg).

**AUTHENTICITY**

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

**CROSS REACTIVITY**

Human

**BIOACTIVITY**

The ED50 was determined by the dose-dependant proliferation of the human A375 melanoma cell line. The expected ED50 for this effect is 4-6 ug/ml.

**RESEARCH AREAS**

Apoptosis, Cancer

**RECONSTITUTION**

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

**REFERENCES**

Kolanczyk, M. MIA is a potential biomarker for tumour load in neurofibromatosis type 1. 2011. BMC Medicine; 9:82.

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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