

**Recombinant Human MIA**  
**Catalog # PBG10297****Specification**

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**Recombinant Human MIA - Product Information****Recombinant Human MIA - Additional Information****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, MIA2, 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 in a manner that results in melanoma cell detachment from the extracellular matrix *in vivo*. Elevated levels of MIA may represent a clinically useful marker for diagnosis of melanoma metastasis as well as a potential marker for rheumatoid arthritis. Recombinant human MIA is a 12.2 kDa globular protein containing 108 amino acid residues including two intramolecular disulfide bonds.

**Biological Activity**

The  $ED_{50}$  was determined by the dose-dependant proliferation of the human A375 melanoma cell line. The expected  $ED_{50}$  for this effect is 4-6 µg/ml.

**Authenticity**

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

**Endotoxin**

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

**Protein Content**

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

**Storage**

-20°C

**Precautions**

Recombinant Human MIA is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Human MIA - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Recombinant Human MIA - Images**