

For Research Use Only

# Recombinant Human MIA protein (rFc Tag)



Catalog Number: Eg2876

## Basic Information

**Species:**  
Human

**Purity:**  
>85 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>85 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human MIA protein Gly25-Gln131 (Accession# Q16674-1) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
8190

**Accession:**  
Q16674-1

**Predicted Molecular Mass:**  
38.1 kDa

**SDS-PAGE:**  
37-42 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Melanoma Inhibitory Activity (MIA) is a small secreted protein that interacts with extracellular matrix proteins. Initially identified as an inhibitor of in vitro growth of malignant melanoma cells, it has been found to play a role in the metastatic behavior of various cancers, including melanoma and pancreatic cancer. MIA is overexpressed in these cancers and can promote tumor cell invasiveness. It adopts an SH3 domain-like fold and interacts with fibronectin, potentially detaching cells from the extracellular matrix. MIA is also a clinically valuable serum marker for malignant melanoma.

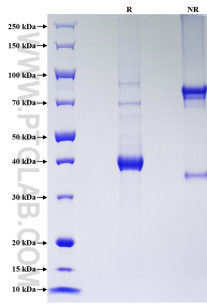
## References

- 1.Schmidt, Jennifer, and Anja-Katrin Bosserhoff. International journal of cancer vol. 125,7 (2009): 1587-94.
- 2.El Fitori, Jamael et al. Cancer cell international vol. 5,1 (2005): 3.
- 3.Schmidt, Jennifer et al. Histology and histopathology vol. 28,4 (2013): 421-6.
- 4.Bosserhoff, Anja-Katrin. Pigment cell research vol. 18,6 (2005): 411-6.

## Synonyms

Melanoma-derived growth regulatory protein

## Selected Validation Data



Purity of Recombinant Human MIA was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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