

# Recombinant Human MICA protein (Myc Tag, His Tag)

Catalog Number: Eg0181

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
Myc Tag, His Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<1.0 EU/ µg protein, LAL method

**Source:**

HEK293-derived Human MICA protein Glu24-Gln308 (Accession# BC016929) with a Myc tag and a His tag at the C-terminus.

**GenID:**

100507436

**Accession:**

BC016929

**Predicted Molecular Mass:**

38.4 kDa

**SDS-PAGE:**

**Formulation:**

Lyophilized from sterile 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

Human MHC class I chain-related genes located within the HLA class I region of chromosome 6 encode MHC class I chain-related A and B (MICA and MICB). MICA and MICB are stress-inducible surface molecules that are not associated with  $\beta$  2-microglobulin and do not present peptides. They are expressed in intestinal epithelium and many epithelial tumors. MICA and MICB are ligands for NKG2D which is an activating receptor that is expressed on most natural killer (NK) cells, CD8  $\alpha$   $\beta$  T cells, and  $\gamma$   $\delta$  T cells.

## References

1. Stephens, H A. Trends in immunology vol. 22,7 (2001): 378-85.
2. Groh, V et al. Science (New York, N.Y.) vol. 279,5357 (1998): 1737-40.
3. Groh, V et al. Proceedings of the National Academy of Sciences of the United States of America vol. 96,12 (1999): 7277-81.
4. Bauer, S et al. Science (New York, N.Y.) vol. 285,5428 (1999): 727-9.
5. Steinle, A et al. Immunogenetics vol. 53,4 (2001): 279-87.

## Synonyms

MICA, MIC-A

## Selected Validation Data

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

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