

# Human MICA Protein, His Tag, low endotoxin (MALS verified)

Catalog # MIA-H5221



BIOSYSTEMS  
**Acro**

Surprise Inside!

## Synonyms

MIC-A

## Source

Human MICA, His Tag (MIA-H5221) is expressed from human 293 cells (HEK293). It contains AA Glu 24 - Gln 308 (Accession # [Q29983-1](#)(K148E)).

Predicted N-terminus: Glu 24

## Molecular Characterization

MICA(Glu 24 - Gln 308) AAH16929.1	Poly-his
--------------------------------------	----------

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 33.8 kDa. The protein migrates as 45-66 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

## Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

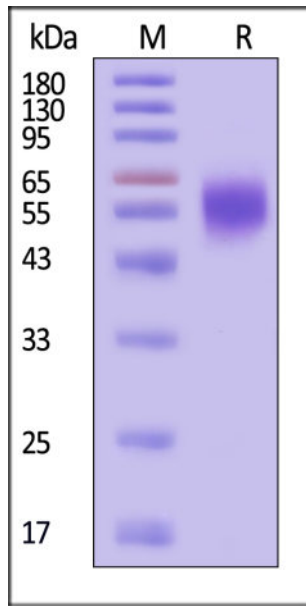
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

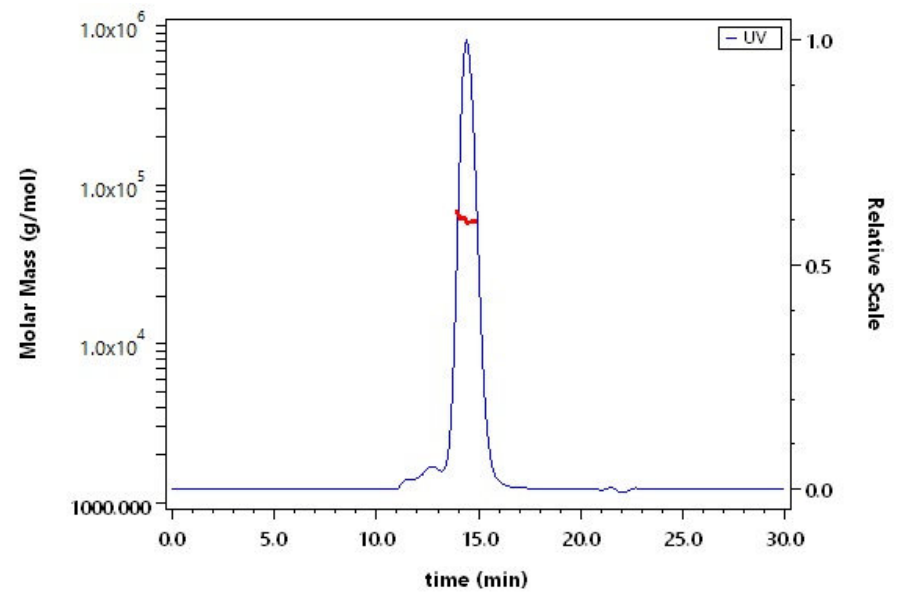
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



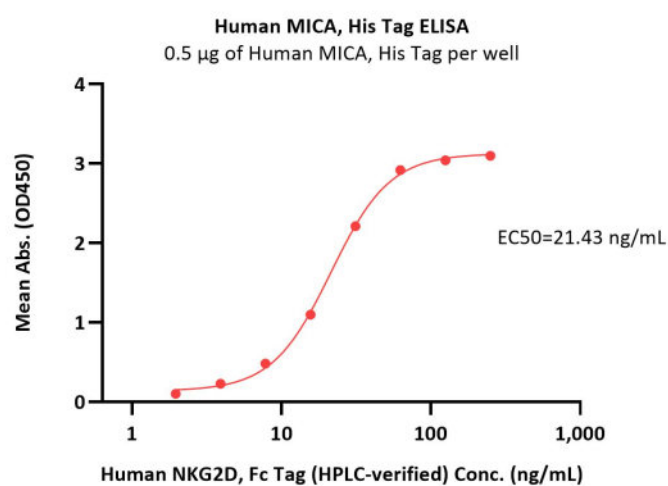
Human MICA, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Human MICA, His Tag (Cat. No. MIA-H5221) is more than 95% and the molecular weight of this protein is around 55-70 kDa verified by SEC-MALS.

## Bioactivity-ELISA



Immobilized Human MICA, His Tag (Cat. No. MIA-H5221) at 5 µg/mL (100 µL/well) can bind Human NKG2D, Fc Tag (HPLC-verified) (Cat. No. NKD-H5265) with a linear range of 2-31 ng/mL (QC tested).

## Background

MHC class I polypeptide-related sequence A (MICA) belongs to the MHC class I family and MIC subfamily. MICA contains one Ig-like C1-type (immunoglobulin-like) domain. Unlike classical MHC class I molecules, MICA does not form a heterodimer with beta-2-microglobulin. MICA acts as a stress-induced self-antigen that is recognized by gamma delta T-cells. MICA is ligand for the KLRK1/NKG2D receptor. MICA bind to KLRK1 leads to cell lysis.

Discounts, Gifts,  
and more!



[www.acrobiosystems.com](http://www.acrobiosystems.com)

