

**Synonym**

MIC-A

**Source**

Human MICA (24-202) Protein, Mouse IgG2a Fc Tag(MIA-H5255) is expressed from human 293 cells (HEK293). It contains AA Glu 24 - Arg 202 (Accession # [Q29983-1](#)).

Predicted N-terminus: Glu 24

**Molecular Characterization**

MICA(Glu 24 - Arg 202) Q29983-1	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 47.8 kDa. The protein migrates as 57-64 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22  $\mu$ m 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.*

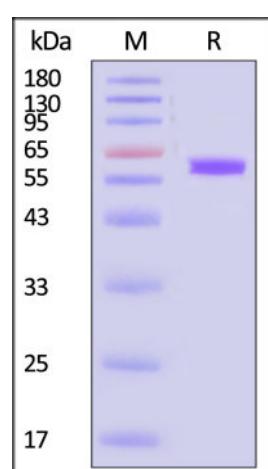
**Storage**

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

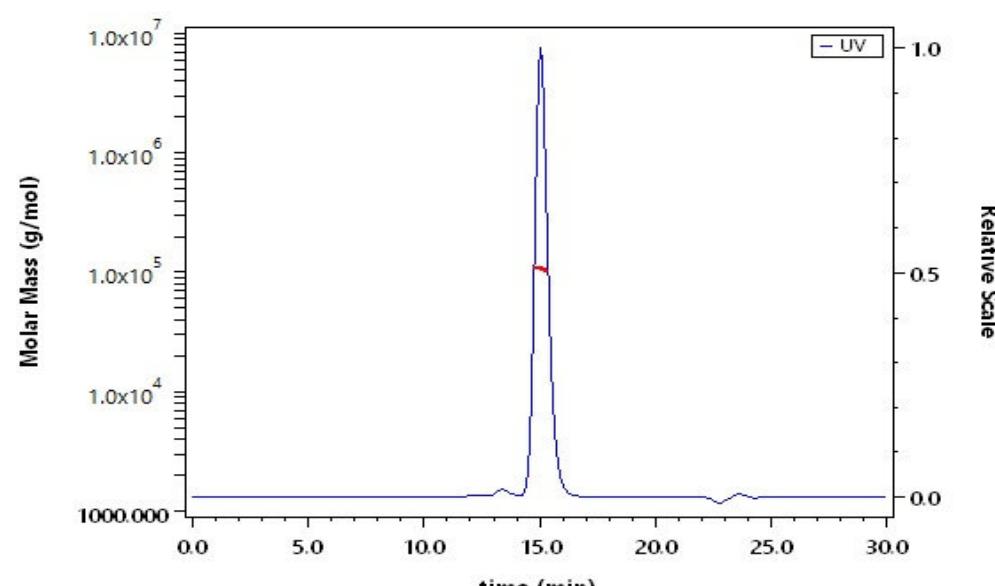
*Please avoid repeated freeze-thaw cycles.*

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.

**SDS-PAGE**

Human MICA (24-202) Protein, Mouse IgG2a Fc 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 (24-202) Protein, Mouse IgG2a Fc Tag (Cat. No. MIA-H5255) is more than 85% and the molecular weight of this protein is around 95-120 kDa verified by SEC-MALS.

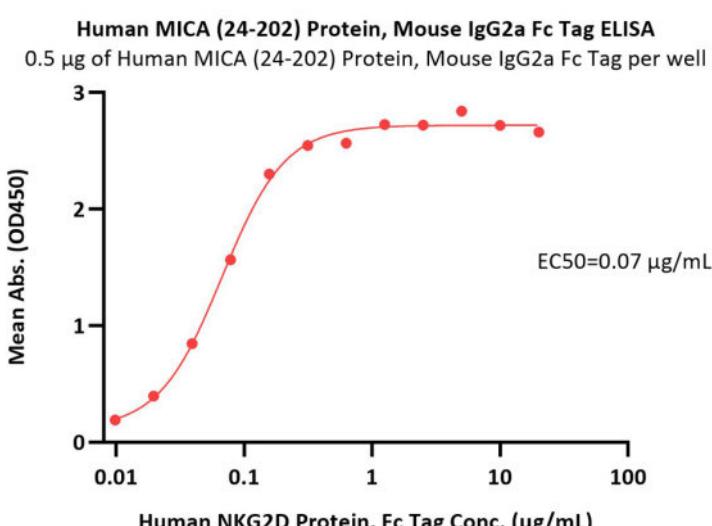
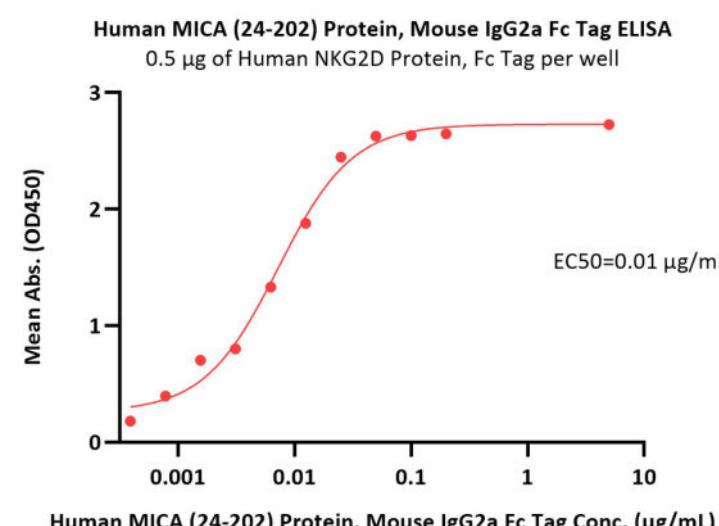
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Immobilized Human NKG2D Protein, Fc Tag (Cat. No. NKD-H5265) at 5 µg/mL (100 µL/well) can bind Human MICA (24-202) Protein, Mouse IgG2a Fc Tag (Cat. No. MIA-H5255) with a linear range of 0.001-0.025 µg/mL (QC tested).

Immobilized Human MICA (24-202) Protein, Mouse IgG2a Fc Tag (Cat. No. MIA-H5255) at 5 µg/mL (100 µL/well) can bind Human NKG2D Protein, Fc Tag (Cat. No. NKD-H5265) with a linear range of 0.01-0.156 µg/mL (Routinely 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.

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