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Datasheet for ABIN7275256

**MICA Protein (His-Avi Tag,Biotin)****4** Images

## Overview

Quantity:	100 µg
Target:	MICA
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MICA protein is labelled with His-Avi Tag,Biotin.

## Product Details

Sequence:	Glu24-Gln308
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human NKG2D, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human MICA, His Tag with the EC50 of 0.32µg/ml determined by ELISA. See testing image for detail.

## Target Details

Target:	MICA
Alternative Name:	MICA ( <a href="#">MICA Products</a> )
Background:	FLJ60820, MGC111087, MICA, PERB11.1, DAMA-345G11.2, FLJ36918, FLJ60820, MGC21250, TMICA (MHC class I chain-related gene A) is a transmembrane glycoprotein that

## Target Details

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functions as a ligand for human NKG2D. A closely related protein, MICB, shares 85 % amino acid identity with MICA. These proteins are distantly related to the MHC class I proteins. They possess three extracellular Ig-like domains, but they have no capacity to bind peptide or interact with beta 2-microglobulin.

Molecular Weight: 35.8 kDa. Due to glycosylation, the protein migrates to 60-68 kDa based on Tris-Bis PAGE result.

UniProt: [Q96QC4](#)

Pathways: [Activation of Innate immune Response](#), [Transition Metal Ion Homeostasis](#), [Human Leukocyte Antigen \(HLA\) in Adaptive Immune Response](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

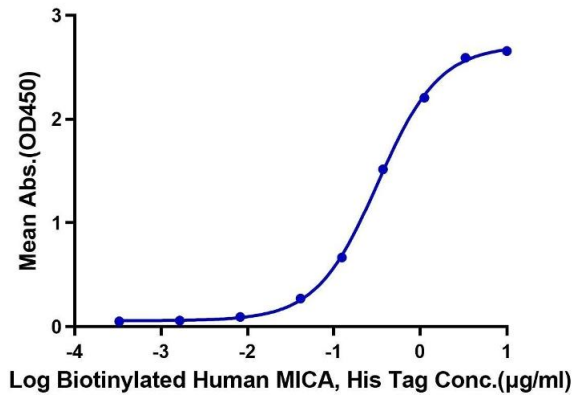
Storage: 4 °C, -80 °C

Storage Comment: Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Expiry Date: 12 months

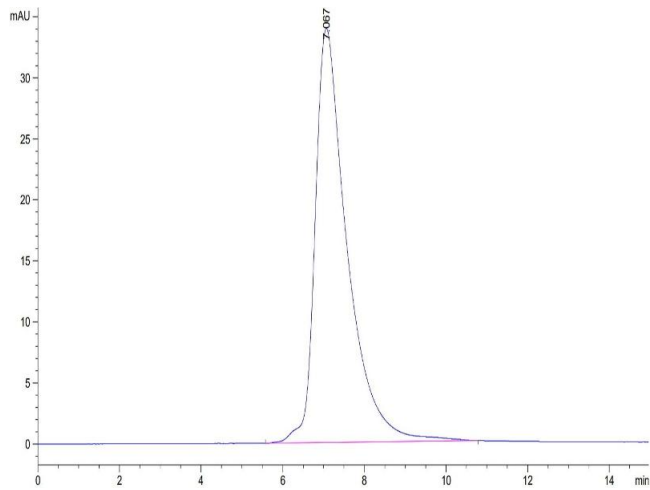
**Biotinylated Human MICA, His Tag ELISA**

0.2µg Human NKG2D, hFc Tag Per Well



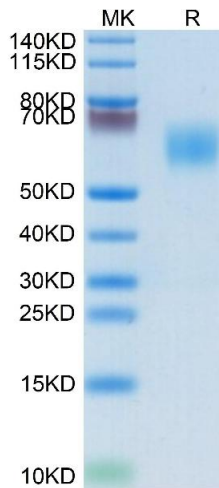
**ELISA**

**Image 1.** Immobilized Human NKG2D, hFc Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human MICA, His Tag with the EC50 of 0.32 µg/mL determined by ELISA.



**Size-exclusion chromatography-High Pressure Liquid Chromatography**

**Image 2.** The purity of Biotinylated Human MICA is greater than 95 % as determined by SEC-HPLC.



**SDS-PAGE**

**Image 3.** Biotinylated Human MICA on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275256.