

# Biotinylated Human MICA Protein

Cat. No. MIC-HM40AB

## Description

<b>Source</b>	Recombinant Biotinylated Human MICA Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Glu24-Gln308.
<b>Accession</b>	Q96QC4
<b>Molecular Weight</b>	The protein has a predicted MW of 35.8 kDa. Due to glycosylation, the protein migrates to 60-68 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

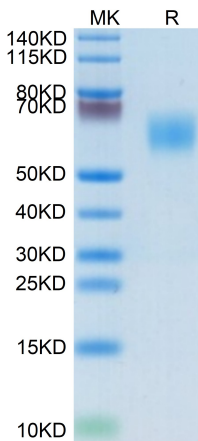
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

TMICA (MHC class I chain-related gene A) is a transmembrane glycoprotein that 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 Iglike domains, but they have no capacity to bind peptide or interact with beta 2-microglobulin.

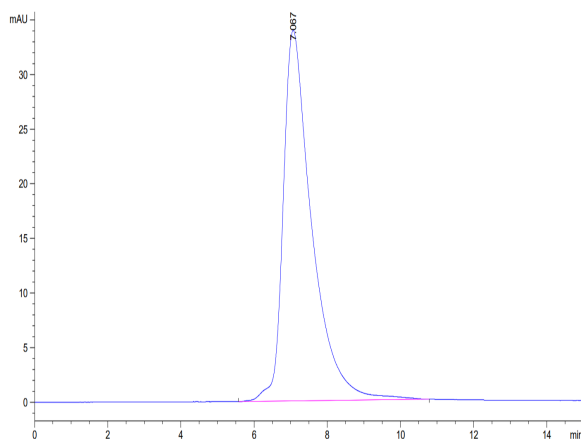
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



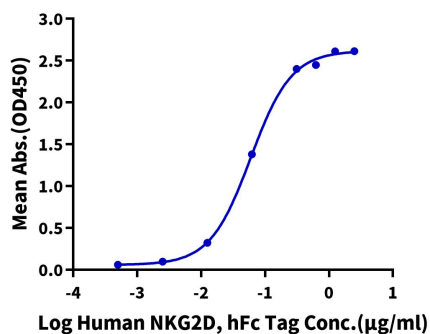
The purity of Biotinylated Human MICA is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human MICA, His Tag ELISA**

0.2µg Biotinylated Human MICA, His Tag Per Well

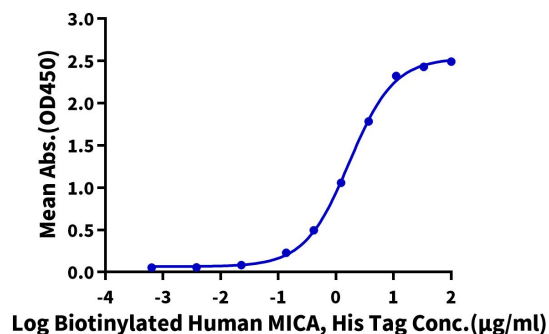


Immobilized Biotinylated Human MICA, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human NKG2D, hFc Tag with the EC50 of 59.7ng/ml determined by ELISA (QC Test).

ELISA Data

**Biotinylated Human MICA, His Tag ELISA**

0.5µg Anti-MICA Antibody, hFc Tag Per Well



Immobilized Anti-MICA Antibody, hFc Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human MICA, His Tag with the EC50 of 1.7µg/ml determined by ELISA.