

# Biotinylated Recombinant Human MHC class I polypeptide-related sequence A/MIC-A Protein

Catalog No.: RP02440B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	100507436	Q96QC4

### Tags

C-His&Avi

### Synonyms

MICA; MIC-A; PERB11.1; MHC class I polypeptide-related sequence A; MIC-A; PERB11.1

## Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE and HPLC

Calculated MW	Observed MW
35.8 kDa	60-68 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## 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 Ig-like domains, but they have no capacity to bind peptide or interact with beta 2-microglobulin.

## Basic Information

### Description

Biotinylated Recombinant Human MHC class I polypeptide-related sequence A/MIC-A Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala23-Gln308) of Human MHC class I chain-related protein A/MIC-A (Accession #) fused with His and Avi tag at the C-terminal.

### Bio-Activity

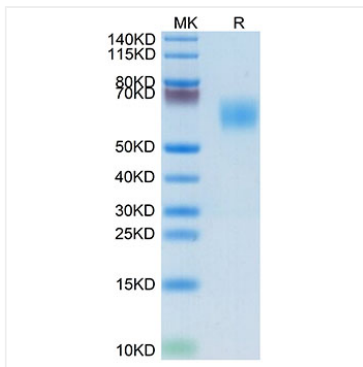
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

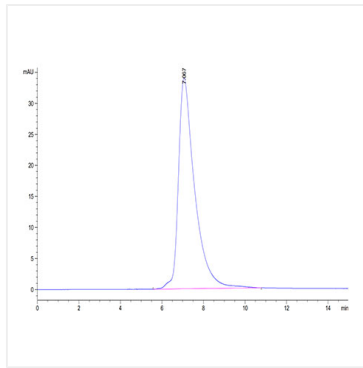
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

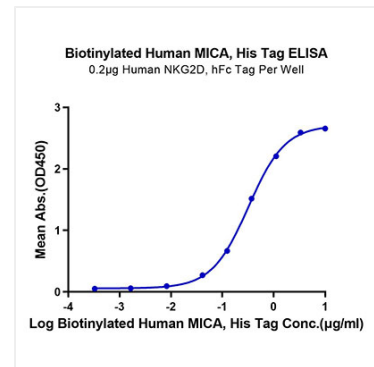
## Validation Data



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



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



Immobilized Human NKG2D, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human MICA, His Tag with the EC<sub>50</sub> of 0.32µg/ml determined by ELISA.