

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

HEK293 cells

Purification

≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW

35.8 kDa

Observed MW

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

☎ | 400-999-6126

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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

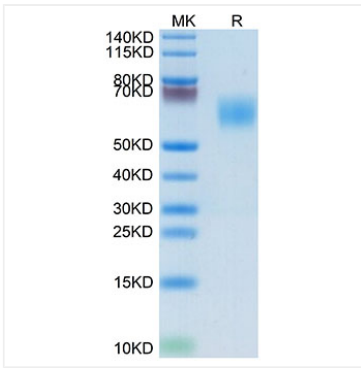
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

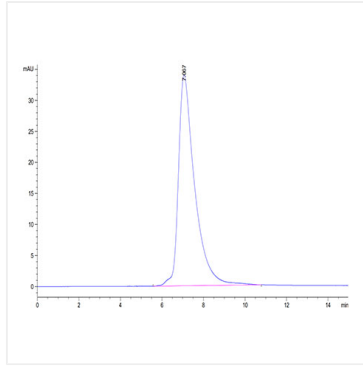
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

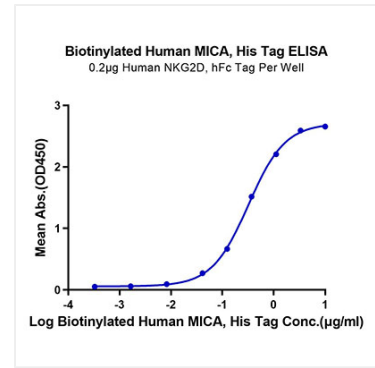
Validation Data



Biotinylated Recombinant Human MHC class I polypeptide-related sequence A/MIC-A Protein was determined by Tris-Bis PAGE under reducing conditions with Coomassie Blue.



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 EC₅₀ of 0.32µg/ml determined by ELISA.