

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

Catalog No.: RP02442B Recombinant

# **Sequence Information**

SpeciesGene IDSwiss ProtHuman4277Q29980

**Tags** C-His&Avi

**Synonyms** MICB;PERB11.2

## **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

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

Calculated MW Observed MW

34.4 kDa 48-65 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.

# 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 stablizer (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

MICB (MHC class I chain-related gene B) is a transmembrane glycoprotein that functions as a ligand for NKG2D. A closely related protein, MICA, shares 85% amino acid identity with MICB.MICB Seems to have no role in antigen presentation. Acts as a stress-induced self-antigen that is recognized by gamma delta T cells. Ligand for the KLRK1/NKG2D receptor. Binding to KLRK1 leads to cell lysis.

## **Basic Information**

## **Description**

Biotinylated Recombinant Human MHC class I polypeptide-related sequence B/MIC-B Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Ala23-Gly298) of Human MICB fused with a 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.

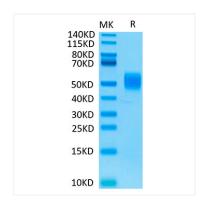
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

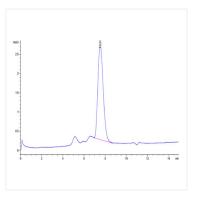
Avoid repeated freeze/thaw cycles.

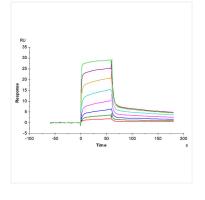
#### **Operational Notes**

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

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

Human NKG2D, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human MICB, His Tag with an affinity constant of 60.38 nM as determined in SPR assay (Biacore T200).