

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

Catalog No.: RP02442B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	4277	Q29980

### Tags

C-His&Avi

### Synonyms

MICB;PERB11.2

## Product Information

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

**Calculated MW**   **Observed MW**

### 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-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

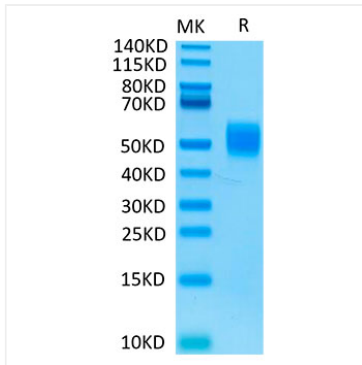
#### Storage

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

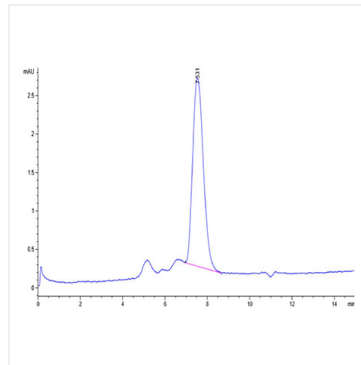
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

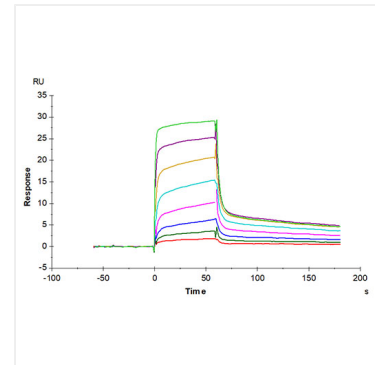
## Validation Data



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



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).