

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

Catalog No.: RP02442B

Sequence Information

Species	Gene ID
Human	4277
Swiss Prot	Tags
Q29980	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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 of 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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

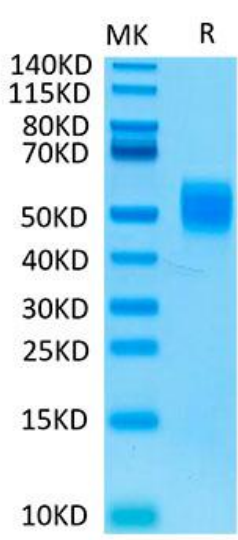
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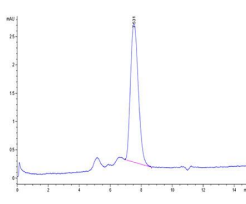
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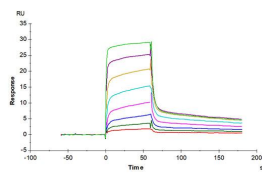
Validation Data



0



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).