

Biotinylated Human MICB Protein

Cat. No. MIC-HM40BB

Description

Source	Recombinant Biotinylated Human MICB Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ala23-Gly298.
Accession	Q29980
Molecular Weight	The protein has a predicted MW of 34.4 kDa. Due to glycosylation, the protein migrates to 48-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

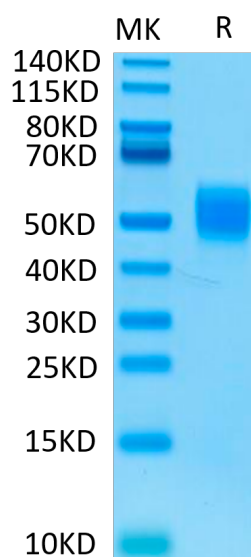
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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 to KLRK1 leads to cell lysis.

Assay Data

Bis-Tris PAGE

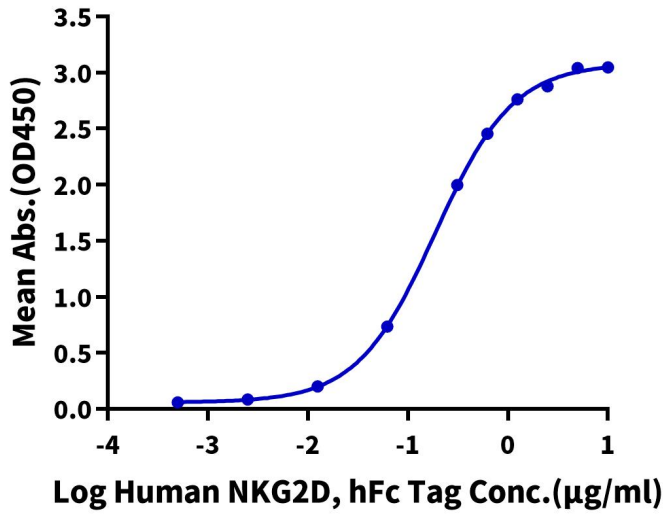


Biotinylated Human MICB on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

ELISA Data

Biotinylated Human MICB, His Tag ELISA

0.2µg Biotinylated Human MICB, His Tag Per Well

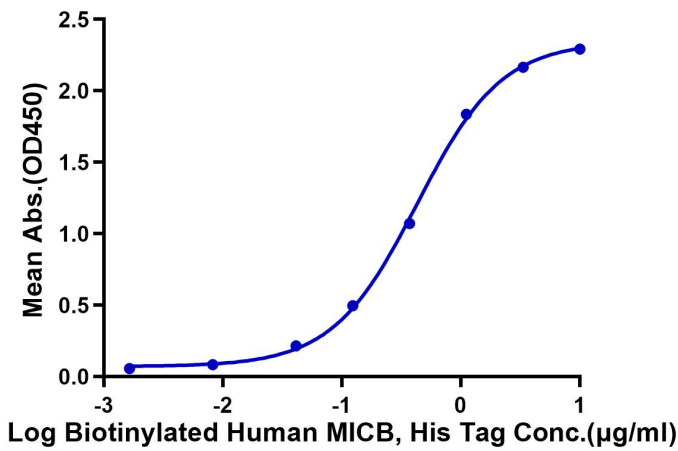


Immobilized Biotinylated Human MICB, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human NKG2D, hFc Tag with the EC50 of 0.19µg/ml determined by ELISA (QC Test).

ELISA Data

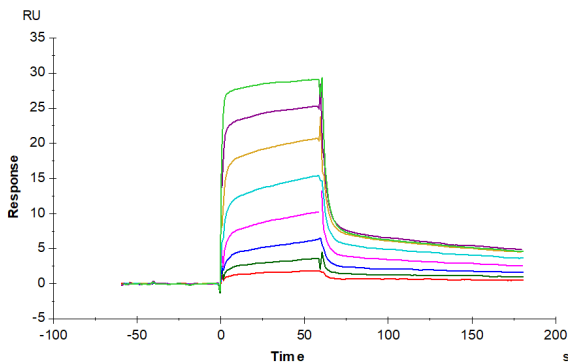
Biotinylated Human MICB, His Tag ELISA

0.5µg Anti-MICB Antibody, hFc Tag Per Well



Immobilized Anti-MICB Antibody, hFc Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human MICB, His Tag with the EC50 of 0.43µg/ml determined by ELISA.

SPR Data



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).