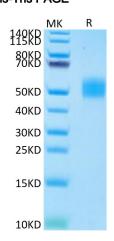
## Human MICB Protein

#### Cat. No. MIC-HM40B

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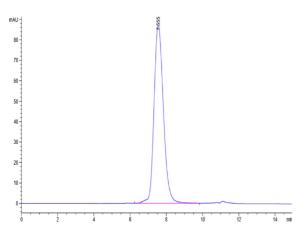
Description	
Source	Recombinant Human MICB Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Ala23-Gly298.
Accession	Q29980-1
Molecular Weight	The protein has a predicted MW of 34.4 kDa. Due to glycosylation, the protein migrates to 48-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
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 receipt80°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**



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

## SEC-HPLC



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

### Human MICB Protein

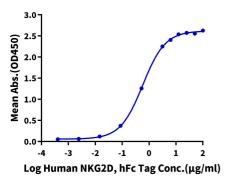
Cat. No. MIC-HM40B

#### **Assay Data**

#### ELISA Data

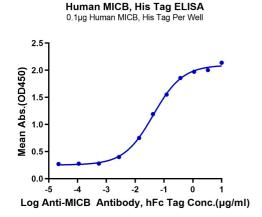
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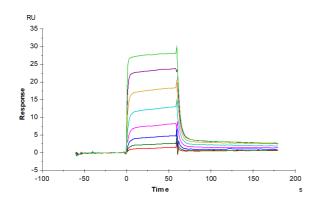


Immobilized Human MICB, His Tag at  $5\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 0.58 $\mu$ g/ml determined by ELISA (QC Test).

#### **ELISA Data**



SPR Data



Immobilized Human MICB, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-MICB Antibody, hFc Tag with the EC50 of 42.4ng/ml determined by ELISA.

Human NKG2D, hFc Tag captured on CM5 Chip via Protein A can bind Human MICB, His Tag with an affinity constant of 83.31 nM as determined in SPR assay (Biacore T200).