Human MICB*005:02:15 Protein

Cat. No. MIC-HM107

Description

Source	Recombinant Human MICB*005:02:15 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Ala23-Asp309.
Accession	A0A1V0E449
Molecular Weight	The protein has a predicted MW of 34.3 kDa. Due to glycosylation, the protein migrates to 48-68 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

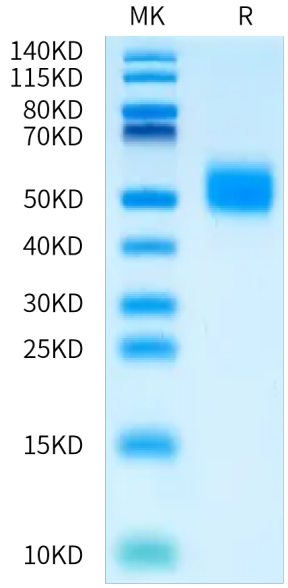
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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



Human MICB*005:02:15 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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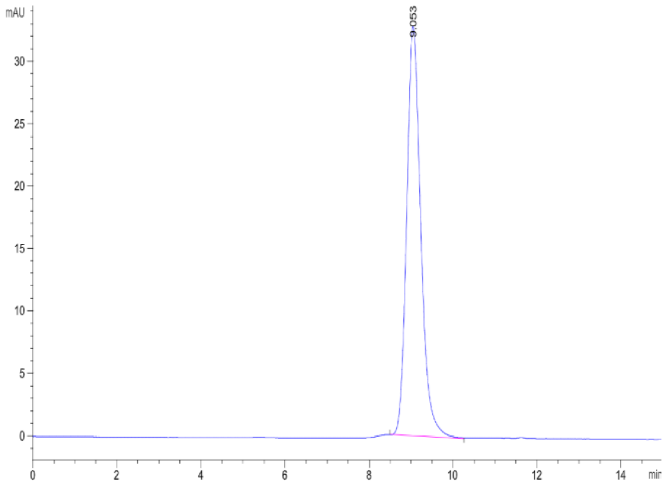
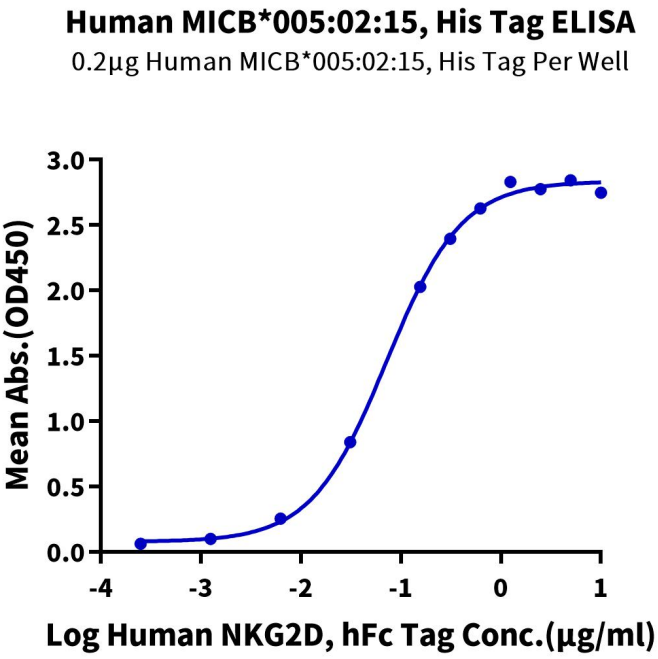
Assay Data



The purity of Human MICB*005:02:15 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human MICB*005:02:15, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 71.9ng/ml determined by ELISA (QC Test).