

Human MICB*002:01:18 Protein

Cat. No. MIC-HM109



Description

Source	Recombinant Human MICB*002:01:18 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Ala23-Asp309.
Accession	AAB42011.1
Molecular Weight	The protein has a predicted MW of 34.3 kDa. Due to glycosylation, the protein migrates to 50-65 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

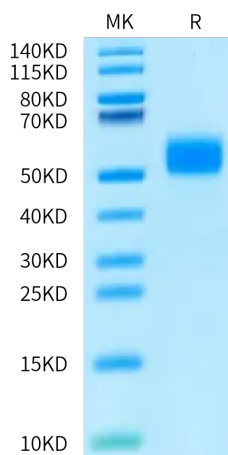
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled 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.

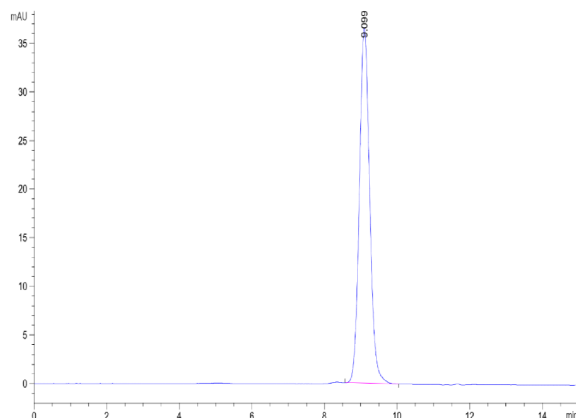
Assay Data

Bis-Tris PAGE



Human MICB*002:01:18 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

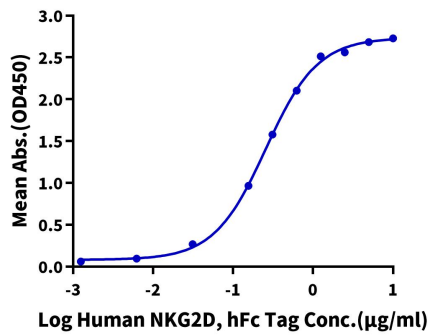


The purity of Human MICB*002:01:18 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human MICB*002:01:18, His Tag ELISA
0.1µg Human MICB*002:01:18, His Tag Per Well



Immobilized Human MICB*002:01:18, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 0.26µg/ml determined by ELISA (QC Test).