

# Human MICB\*014:01:08 Protein

Cat. No. MIC-HM108



## Description

<b>Source</b>	Recombinant Human MICB*014:01:08 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ala23-Asp309.
<b>Accession</b>	A0A7D9D6Y8
<b>Molecular Weight</b>	The protein has a predicted MW of 34.33 kDa. Due to glycosylation, the protein migrates to 48-68 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

## Formulation and Storage

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

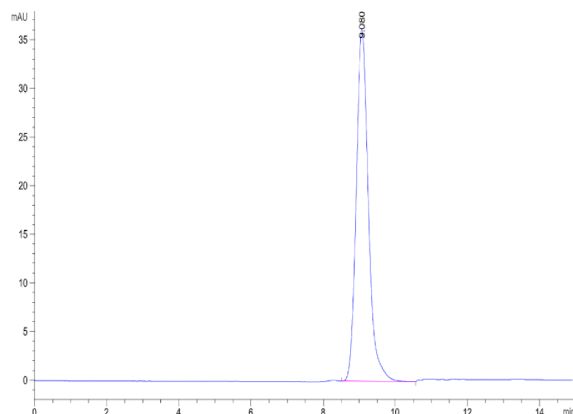
## Assay Data

### Bis-Tris PAGE



Human MICB\*014:01:08 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

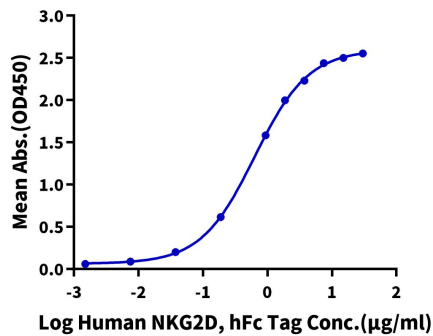


The purity of Human MICB\*014:01:08 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human MICB\*014:01:08, His Tag ELISA  
0.5µg Human MICB\*014:01:08, His Tag Per Well



Immobilized Human MICB\*014:01:08, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 0.63µg/ml determined by ELISA (QC Test).