

# Recombinant Human MIC-B Protein

Catalog No.: RP00118 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	4277	Q29980

### Tags

C-hFc&His

### Synonyms

MICB;PERB11.2

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
58.24 kDa	75-100 kDa

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

This protein is a heavily glycosylated protein which is a ligand for the NKG2D type II receptor. Binding of the ligand activates the cytolytic response of natural killer (NK) cells, CD8 alpha beta T cells, and gamma delta T cells which express the receptor. This protein is stress-induced and is similar to MHC class I molecules; however, it does not associate with beta-2-microglobulin or bind peptides. Alternative splicing results in multiple transcript variants.

## Basic Information

### Description

Recombinant Human MIC-B Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala23-Gly298) of human MICB (Accession #NP\_005922.2) fused with an Fc, 6×His tag at the C-terminus.

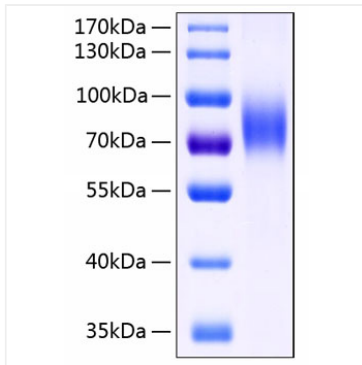
### Bio-Activity

#### Storage

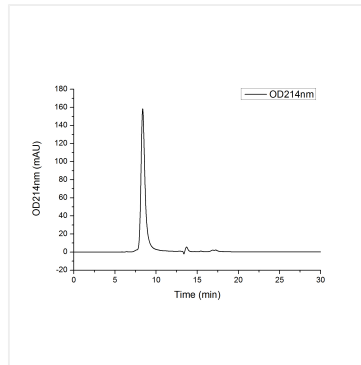
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human MIC-B Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at approximately 75 kDa.



The purity of Human MICB Protein (Cat.RP00118) was greater than 95% as determined by SEC-HPLC.