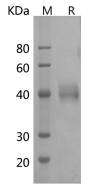
Recombinant Human MICB Protein (His Tag)

Catalog Number: PDMH100355

Note: Centrifuge before opening to ensure complete recovery of vial contents.

SpeciesHumanSourceHEK293 Cells-derived Human MICB protein Met1-Gly298, with an C-trCalculated MW33 kDaObserved MW45-50 kDaAccessionQ29980Bio-activityNot validated for activityPropertiesPurity> 95% as determined by reducing SDS-PAGE.Endeterin< 10 EU/mg of the protein on determined by the LAL method.	
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Endetermine < 10 EU/mg of the protein of determined by the LAU mothed	
Endotoxin <1.0 EU/mg of the protein as determined by the LAL method	
Storage Generally, lyophilized proteins are stable for up to 12 months when sto	ored at -20 to -80
°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days	. Aliquots of
reconstituted samples are stable at $< -20^{\circ}$ C for 3 months.	
Shipping This product is provided as lyophilized powder which is shipped with	ice packs.
Formulation Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose	and 5%
Mannitol.	
Reconstitution It is recommended that sterile water be added to the vial to prepare a s	stock solution of
0.5 mg/mL. Concentration is measured by UV-Vis.	





> 98 % as determined by reducing SDS-PAGE.

Background

MHC class I polypeptide-related sequence B, also known as MICB, is a heavily glycosylated protein serving as a ligand for the type I ,I receptor NKG2D. MICB shares 85% amino acid identity with MICA, a closely related protein, both of which contain three extracellular immunoglobulin-like domains, but without capacity to bind peptide or interact with beta-2-microglobulin. acting as a stress-induced self-antigen, binding of MICB to the NKG2D receptor activates the cytolytic response of natural killer (NK) cells, CD8+ $\alpha\beta$ T cells, and $\gamma\delta$ T cells on which the receptor is expressed. MICA/B are minimally expressed on normal cells, but are frequently expressed on epithelial tumors and can be induced by bacterial and viral infections. MICA/B recognition thus is involved in tumor surveillance, viral infections, and autoimmune diseases.

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