

Recombinant Human MICB Protein (His Tag)(Active)

Catalog Number:PKSH031443



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

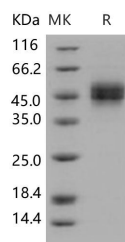
Description

Synonyms	PERB11.2
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Gly 298
Accession	Q29980
Calculated Molecular Weight	33 kDa
Observed molecular weight	45-50 kDa
Tag	C-His
Bioactivity	Immobilized human MICB-His at 10 µg/ml (100 µl/well) can bind human NKG2D, The EC50 of human NKG2D is 0.52-1.2 µg/ml.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored 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°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 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+αβ T cells; and γδ 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

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by bacterial and viral infections. MICA/B recognition thus is involved in tumor surveillance; viral infections; and autoimmune diseases.

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