

Recombinant Human MHC Class I Polypeptide-Related Sequence B

Cat. No. MICB-5454H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human produced in E. coli is a single, non-glycosylated polypeptide chain containing 326 amino acids and having a MW 37 kDa. The sequence contains the extracellular domain of the mature human MICB (amino acid residues Ala23-Tyr312).
Species	Human
Source	E.coli
Protein Length	23-312 a.a.
Description	MICB is a protein that in humans is encoded by the MICB gene. This gene encodes 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.
Form	Lyophilized from a concentrated (1 mg/ml) solution containing no additives.
Purity	Greater than 95.0% as determined by analysis by RP-HPLC, anion-exchange FPLC and by reducing and non-reducing SDS-PAGE Silver Stained gel.
Endotoxin Level	Less than 0.1 ng/μg (1 EU/μg) of Recombinant Human MICB.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Biological Activity	ProSpec's Recombinant Human MICB is fully biologically active when compared to standards. Measured by its ability to bind MICB antibody in ELISA.
Reconstitution	It is recommended to reconstitute the lyophilized MICB in sterile 18 MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
storage	Lyophilized Recombinant Human MICB although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution MICB should be stored at 2-4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.
Official Symbol	MICB
Pathways	Antigen processing and presentation; Cell adhesion molecules (CAMs); Natural killer cell mediated cytotoxicity; Type I diabetes mellitus; Signaling in Immune system

GENE INFORMATION

Gene Name	MICB MHC class I polypeptide-related sequence B [Homo sapiens]
Synonyms	MICB; MHC class I polypeptide-related sequence B; PERB11.2; MICB; MIC-B; OTTHUMP00000029089; MHC class I polypeptide-related sequence B; MHC class I molecule; MHC class I mic-B antigen; stress inducible class I homolog; MHC class I chain-related protein B; MHC class I-like molecule PERB11.2-IMX; OTTHUMP00000035091; TTHUMP00000035588
Gene ID	4277
mRNA Refseq	NM_005931

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Protein Refseq	NP_005922
MIM	602436
UniProt ID	Q0EFB4
Chromosome Location	6p21.3
Function	natural killer cell lectin-like receptorbinding
PDBrendering based on 1je6.	

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