9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MICA Human, His

MHC class I chain-related gene A, Human Recombinant His Tag
RCP1366

Product Overview

Name	MICA Human, His

Description

MHC class I chain-related gene A, Human Recombinant His Tag

Accession (Primary)	Q29983

Synonyms

MHC class I polypeptide-related sequence A, MIC-A, MICA, PERB11.1, HLA-B, AS, HLAB, HLAC, SPDA1, HLA-B73, HLA-B-7301.

Introduction

MICA (MHC class I chain-related gene A) is a transmembrane glycoprotein that functions as a ligand for human NKG2D. A closely related protein, MICB, shares 85% amino acid identity with MICA. These proteins are distantly related to the MHC class I proteins. They possess three extracellular Ig-like domains, but they have no capacity to bind peptide or interact with ?2-microglobulin. The genes encoding these proteins are found within the Major Histocompatibility Complex on human chromosome 6. The MICA locus is highly polymorphic with more than 50 recognized human alleles. MICA is absent from most cells but is frequently expressed in epithelial tumors and can be induced by bacterial and viral infections. MICA is a ligand for human NKG2D, an activating receptor expressed on NK cells, NKT cells,gammadelta T cells, and CD8+beta T cells. Recognition of MICA by NKG2D results in the activation of cytolytic activity and/or cytokine production by these effector cells. MICA recognition is involved in tumor surveillance, viral infections, and autoimmune diseases.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

MICA protein solution (0.25mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

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Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MEPHSLRYNL TVLSWDGSVQ SGFLTEVHLD GQPFLRCDRQ KCRAKPQGQW AEDVLGNKTW DRETRDLTGN GKDLRMTLAH IKDQKEGLHS LQEIRVCEIH EDNSTRSSQH FYYDGELFLS QNLETEEWTM PQSSRAQTLA MNVRNFLKED AMKTKTHYHA MHADCLQELR RYLKSGVVLR RTVPPMVNVT RSEASEGNIT VTCRASGFYP WNITLSWRQD GVSLSHDTQQ WGDVLPDGNG TYQTWVATRI CQGEEQRFTC YMEHSGNHST HPVPS LEHHH HHH.

Precautions

MICA Human, His is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q29983)