

# Recombinant human MICA protein

Catalog Number: ATGP3053

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

24-297aa

### UniProt No.

Q29983

### NCBI Accession No.

AAH16929.1

### Alternative Names

MHC class I polypeptide-related sequence A, MHC class I polypeptide-related sequence A, PERB11.1, truncated

## PRODUCT SPECIFICATION

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### Molecular Weight

32.7 kDa (283aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% Glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by its binding ability in a functional ELISA with Human NKG2D (CAT# ATGP3662)

### Tag

His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

MICA also known as MHC class I polypeptide-related sequence A. This Protein's Function seems to have no role in

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antigen presentation. It acts as a stress-induced self-antigen that is recognized by gamma delta T-cells. It binding to KLRK1 leads to cell lysis. Recombinant human MICA, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

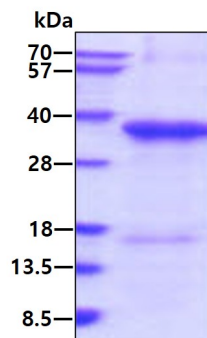
MEPHSLRYNL TVLSWDGSPVQ SGFLTEVHLD GQPFLRCDRQ KCRAKPQGQW AEDVLGNKTW DRETRDLTGN  
GKDLRMTLAH IKDQKEGLHS LQEIRVCEIH EDNSTRSSQH FYYDGELFLS QNLETEEWTM PQSSRAQTLA MNVRNFLKED  
AMKTKTHYHA MHADCLQELR RYLKSGVVLV RTVPPMVNVT RSEASEGNIT VTCRASGFYP WNITLSWRQD GVSLSHDTQQ  
WGDVLPDNG TYQTWVATRI CQGEEQRFTC YMEHSGNHST HPVPS<LEHHH HHH>

## General References

Strausberg, R.L, et al. (2002) Proc. Natl. Acad. Sci. u.S.A. 99 (26), 16899-16903

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

### Biological Activity

Human MICA is coated at 10 ug/ml (100 ul/well) can bind Human NKG2D (CAT# ATGP3662) in a Functional ELISA assay.

