

## MICaA3 recombinant protein

Human MICaA3 Protein, His Tag

CATALOG #  
**AAA47605**

HOST  
**HEK293**

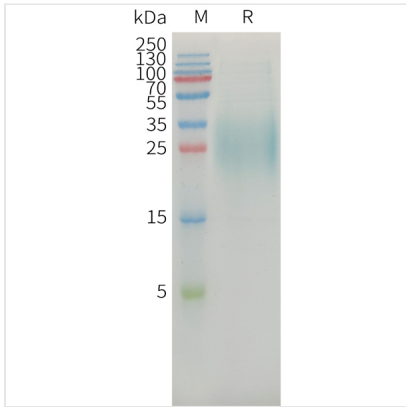
### PRODUCT SYNONYMS

MICaA3; Human MICaA3 Protein; His Tag; MICA; MIC-A; PERB11.1; MICaA3 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification     | The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                                                                                                                                                                                                                                       |
| Form/Format             | Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose is added as protectants before lyophilization.                                                                                                                                                                                                                                                                                                                                              |
| Sequence                | MICaA3(Arg 203-His306 )6xHistag                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tag                     | C-6xHis Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Visual Inspection       | Test: Lyophilized ; Specification: Dried white powder ; Result: Pass<br>Test: Vial Label ; Specification: Label aligned and complete ; Result: Pass<br>Specification: Bottle sealing (manual check) ; Specification: Sealed tight ; Result: Pass                                                                                                                                                                                                           |
| Quantity                | Test: Bradford method ; Specification: $\geq$ specified quantity ; Result: Pass                                                                                                                                                                                                                                                                                                                                                                            |
| Other properties        | Test: pH ; Specification: 7.4 +- 0.5 ; Result: Pass                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reconstitution          | 1. Before opening the tube cap, centrifuge the sample tube at 5000g for 3-5 min at room temperature to ensure the lyophilized sample to settle down at the bottom of the tube<br><br>2. Dissolved lyophilized protein sample in sterile water based on the recommended volume 104.17 ul<br><br>3. After adding sterile water, cover the lid and mix them by gently tapping the tube for 5-10 times<br><br>Note: Do not vortex or vigorously pipette sample |
| Preparation and Storage | Store at -20 degree C to -80 degree C for 12 months in lyophilized form.<br>After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing).<br>For long term storage, glycerol can be added to a final concentration of 50% and stored at -20 degree C                                                                                                                              |

IMAGES



SDS-PAGE  
Figure 1. Human MICAalpha3 Protein, His Tag on SDS-PAGE under reducing condition.

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for MICAa3 recombinant protein | Recombinant human MICAa3 Protein with C-terminal 6×His tag<br>This gene encodes the highly polymorphic major histocompatibility complex class I chain-related protein A. The protein product is expressed on the cell surface, although unlike canonical class I molecules it does not seem to associate with beta-2-microglobulin. It is a ligand for the NKG2-D type II integral membrane protein receptor. The protein functions as a stress-induced antigen that is broadly recognized by intestinal epithelial gamma delta T cells. Variations in this gene have been associated with susceptibility to psoriasis 1 and psoriatic arthritis, and the shedding of MICA-related antibodies and ligands is involved in the progression from monoclonal gammopathy of undetermined significance to multiple myeloma. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2014] |
| Product Categories/Family for MICAa3 recombinant protein   | ECD 1182; ECD Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 74740024                                                                                                                                     |
| NCBI GeneID                      | 100507436                                                                                                                                    |
| UniProt Accession #              | Q29983; O60917; O60918; O60919; O60920; O60933; O77956; O78150; A8KQR0; A9LRW5; A9QVE0; B1VJF1                                               |
| Molecular Weight                 | The protein has a predicted molecular mass of 12.5 kDa after removal of the signal peptide                                                   |
| NCBI Official Full Name          | MHC class I polypeptide-related sequence A                                                                                                   |
| NCBI Official Synonym Full Names | MHC class I polypeptide-related sequence A                                                                                                   |
| NCBI Official Symbol             | MICA                                                                                                                                         |
| NCBI Official Synonym Symbols    | MIC-A; PERB11.1                                                                                                                              |
| NCBI Protein Information         | MHC class I polypeptide-related sequence A; MICA; HLA class I antigen; stress inducible class I homolog; MHC class I chain-related protein A |
| UniProt Protein Name             | MHC class I polypeptide-related sequence A                                                                                                   |
| UniProt Gene Name                | MICA                                                                                                                                         |
| UniProt Synonym Gene Names       | MIC-A                                                                                                                                        |
| UniProt Entry Name               | MICA_HUMAN                                                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

