

## Recombinant Human MIC-A Protein, His Tag

### Product Information

Product Name	Cat#	Size
Recombinant Human MIC-A Protein, His Tag	92555ES10	10 µg
	92555ES60	100 µg
	92555ES76	500 µg

### Product Description

MIC-A (MHC class I chain-related gene A) is a single-pass type I member protein. It is expressed on the cell surface in gastric epithelium, endothelial cells and fibroblasts and in the cytoplasm in keratinocytes and monocytes. Additionally, MIC-A can be induced by bacterial and viral infections. A closely related protein, MICB, shares 85% amino acid identity with MICA. MICA is a ligand for human NKG2D, an activating receptor expressed on NK cells, NKT cells, gamma δ T cells, and CD8<sup>+</sup> alpha 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.

### Product Properties

<b>Synonyms</b>	FLJ60820, MGC111087, MICA, PERB11.1
<b>Accession</b>	Q96QC4
<b>GeneID</b>	100507436
<b>Source</b>	E.coli-derived human MIC-A protein, Glu24-His306.
<b>Molecular Weight</b>	Approximately 36.9 kDa.
<b>AA Sequence</b>	MSYYHHHHHH DYDIPTTENL YFQGAMDPEF EPHSLRYNLT VLSWDGGSVQS GFLAEVHLDG QPFLRYDRQK CRAKPQGQWA EDVLGNKTWD RETRDLTGNG KDLRMTLAHI KDQKEGLHSL QEIRVCEIHE DNSTRSSQHF YYDGELFLSQ NLETEEWTPV QSSRAQTLAM NVRNFLKEDA MKTKTHYHAM HADCLQELRR YLESGVVLRV TVPPMVNVTR SEASEGNITV TCRASSFYPR NIILTWRQDG VLSHDTQQW GDVLPDNGT YQTWVATRIC RGEEQRFTCY MEHSGNHSTH PVPSGKVLVL QSHKLGCFGG
<b>Tag</b>	N-His
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	The specific activity is determined by binding MICA antibody in ELISA. Fully biologically active when compared to standard.
<b>Endotoxin</b>	< 1.0 EU per 1 µg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, and 8 M Urea.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water to a concentration of 1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions, which contain 8 M Urea.

### Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C for 1 year.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

3 months, -20 °C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

### **Cautions**

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!