

Human MICA alpha 3 Protein, Ultra Low Endotoxin



Cat. No. MIC-HM3AD-UL

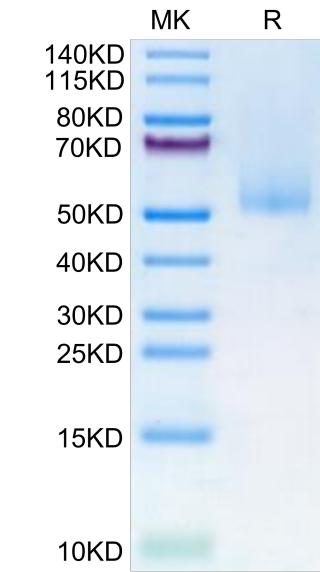
| Description | |
|------------------|--|
| Source | Recombinant Human MICA alpha 3 Protein is expressed from HEK293 with mFc (IgG1) tag at the N-Terminus. It contains Arg105-Ser200. |
| Accession | NP_001276081.1 |
| Molecular Weight | The protein has a predicted MW of 36.8 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 0.01 EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

| Formulation and Storage | |
|-------------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

| Background | |
|---|--|
| 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 Iglike domains, but they have no capacity to bind peptide or interact with beta 2-microglobulin.. | |

Assay Data

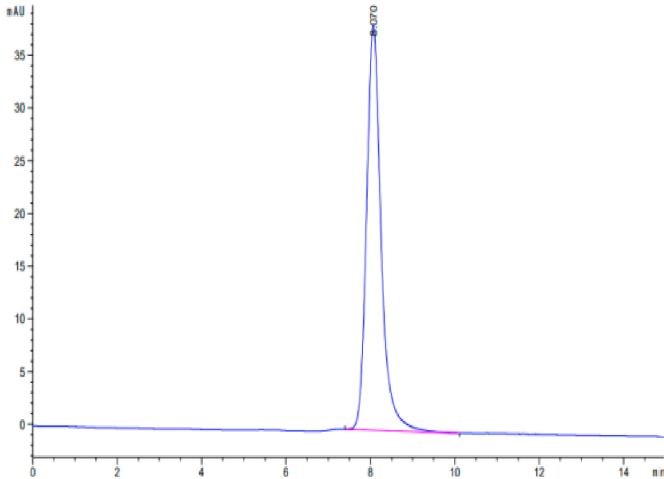
Bis-Tris PAGE



Human MICA alpha 3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

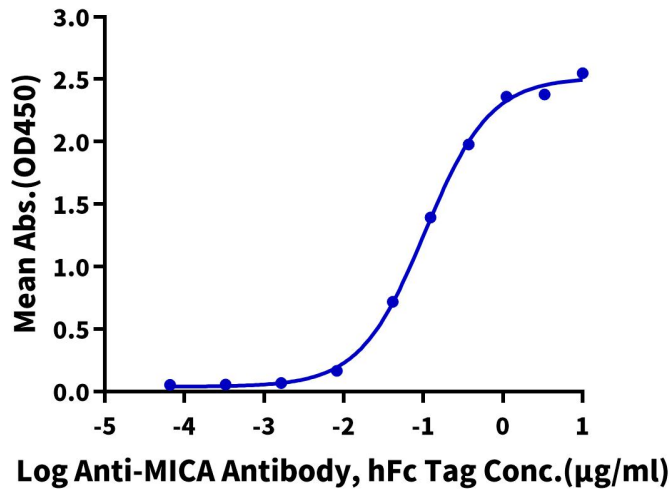
Assay Data



The purity of Human MICA alpha 3 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human MICA alpha 3, mFc Tag ELISA
0.2µg Human MICA alpha 3, mFc Tag Per Well



Immobilized Human MICA alpha 3, mFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-MICA Antibody, hFc Tag with the EC50 of 0.10µg/ml determined by ELISA (QC Test).