Human MICA alpha 3 Protein

Cat. No. MIC-HM3AD

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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

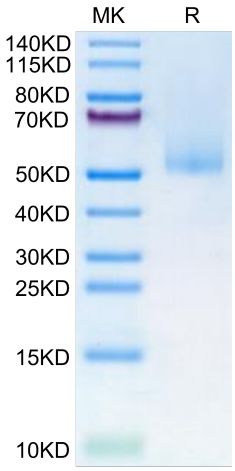
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3-6 months after reconstitution.2-8°C for 2-7 days 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..

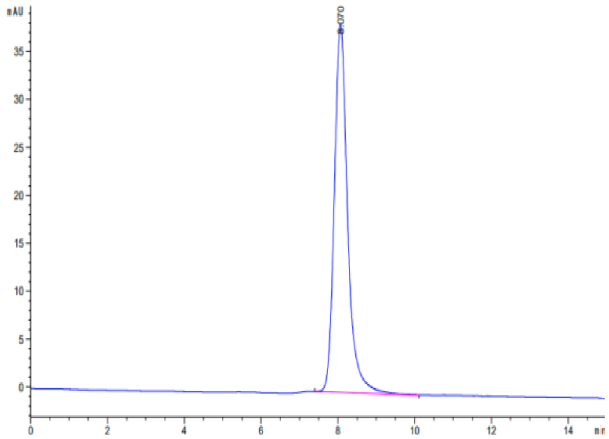
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



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

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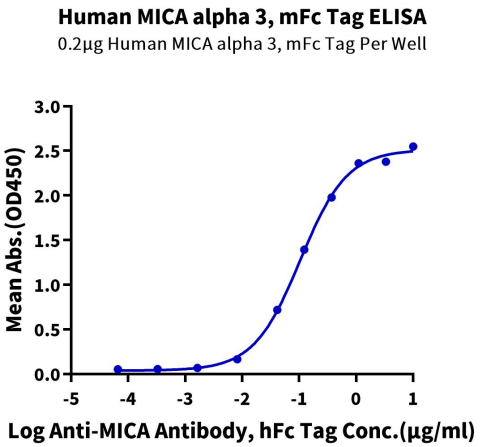
Assay Data

ELISA Data



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.