

MICA alpha 3 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	MICA alpha 3;MICA α 3;MICA;MIC-A
Protein Construction:	Arg105-Ser200
Species:	Human
Expression Host:	HEK293 Cells
Accession:	NP_001276081.1
Molecular Weight:	36.8 kDa (predicted). Due to glycosylation, the protein migrates to 50-65 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human MICA alpha 3, mFc Tag at 2 μ g/ml (100 μ l/well) on the plate. Dose response curve for Anti-MICA Antibody, hFc Tag with the EC50 of 76.9ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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 Ig-like domains, but they have no capacity to bind peptide or interact with beta 2-microglobulin..

Reference

Friese M A, et al. MICA/NKG2D-mediated immunogene therapy of experimental gliomas.[J]. Cancer Research, 2003, 63(24):8996-9006.

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