

MICA Protein, Human, Recombinant (His & Avi)

General Information

| | |
|-----------------------|--|
| Synonyms: | FLJ36918;FLJ60820;MICA;MGC111087;PERB11.1;DAMA-345G11.2;MGC21250 |
| Protein Construction: | Glu24-Gln308 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | Q96QC4 |
| Molecular Weight: | 35.8 kDa (predicted). Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result. |

QC Testing

| | |
|----------------------|--|
| Biological Activity: | Immobilized Human MICA, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-MICA Antibody, hFc Tag with the EC50 of 0.16µg/ml determined by ELISA. |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/µg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 µm 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 µg/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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481