

For Research Use Only

Recombinant Human MICA protein (His Tag)



Catalog Number: Eg1176

Basic Information

ED50:
/

GeneID:
4276

Species:
Human

Accession:
AAH16929.1

Purity:
>90 %, SDS-PAGE

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human MICA protein Glu24-Gln308 (Accession# AAH16929.1) with a His tag at the C-terminus.

Predicted Molecular Mass:
33.6 kDa

SDS-PAGE:
45-60 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Human MHC class I chain-related genes located within the HLA class I region of chromosome 6 encode MHC class I chain-related A and B (MICA and MICB). MICA and MICB are stress-inducible surface molecules that are not associated with β 2-microglobulin and do not present peptides. They are expressed in intestinal epithelium and many epithelial tumors. MICA and MICB are ligands for NKG2D which is an activating receptor that is expressed on most natural killer (NK) cells, CD8 α β T cells, and γ δ T cells.

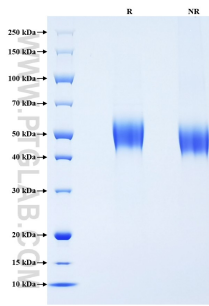
References

1. V Groh, et al. (1998) Science. 279(5357):1737-40.
2. V Groh, et al. (1999) Proc Natl Acad Sci U S A. 96(12):6879-84.
3. S Bauer, et al. (1999) Science. 285(5428):727-9.
4. H A Stephens. (2001) Trends Immunol. 22(7):378-85.
5. A Steinle, et al. (2001) Immunogenetics. 53(4):279-87.

Synonyms

MICA, MIC A, PERB11.1

Selected Validation Data



Purity of Recombinant Human MICA was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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