

Active Biotinylated Recombinant Human MICA Protein (Ala23-Gln308), Fc/Avi tagged

Cat. No. MICA-706H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated recombinant Human MICA protein (Ala23-Gln308) with Human IgG1 (Pro100-Lys330) Fc Avi-tag was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	23-308 a.a.
Description	This gene encodes the highly polymorphic major histocompatibility complex class I chain-related protein A. The protein product is expressed on the cell surface, although unlike canonical class I molecules it does not seem to associate with beta-2-microglobulin. It is a ligand for the NKG2-D type II integral membrane protein receptor. The protein functions as a stress-induced antigen that is broadly recognized by intestinal epithelial gamma delta T cells. Variations in this gene have been associated with susceptibility to psoriasis 1 and psoriatic arthritis, and the shedding of MICA-related antibodies and ligands is involved in the progression from monoclonal gammopathy of undetermined significance to multiple myeloma. Alternative splicing of this gene results in multiple transcript variants.
Form	Disulfide-linked homodimer, biotinylated via Avi-tag
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human NKG2D Fc Chimera is immobilized at 1

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	µg/mL (100 µL/well), the concentration of Biotinylated Recombinant Human MICA Fc Chimera Avi-tag that produces 50% of the optimal binding response is found to be approximately 7.5-45 ng/mL.
Molecular Mass	Predicted Molecular Mass: 61 kDa SDS-PAGE: 85-100 kDa, under reducing conditions
N-terminal Sequence Analysis	Ala23
Endotoxin	< 0.10 EU/µg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Reconstitution	Reconstitute at 500 µg/mL in PBS.
Shipping	The product is shipped at ambient temperature.
Conjugation	Biotin

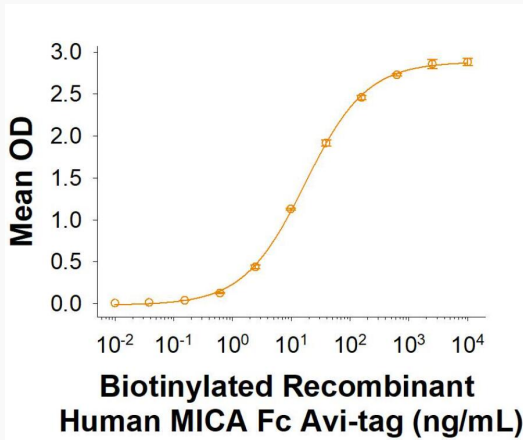
GENE INFORMATION

Gene Name MICA MHC class I polypeptide-related sequence A [Homo sapiens (human)]

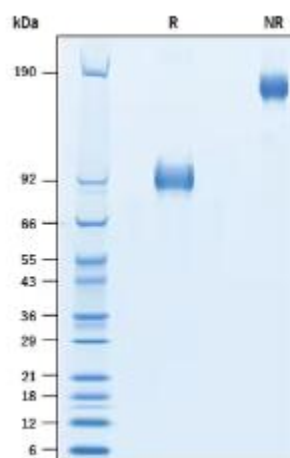
 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	MICA																
Synonyms	MICA; MHC class I polypeptide-related sequence A; PERB11.1; HLA class I antigen; stress inducible class I homolog; MHC class I chain-related protein A; MIC-A; FLJ36918; FLJ60820; MGC21250; MGC111087;																
Gene ID	100507436																
mRNA Refseq	NM_001177519																
Protein Refseq	NP_001170990																
MIM	600169																
UniProt ID	Q29983																
Binding Activity	 <table border="1"> <caption>Approximate data points from the Binding Activity graph</caption> <thead> <tr> <th>Biotinylated Recombinant Human MICA Fc Avi-tag (ng/mL)</th> <th>Mean OD</th> </tr> </thead> <tbody> <tr><td>10⁻²</td><td>0.05</td></tr> <tr><td>10⁻¹</td><td>0.05</td></tr> <tr><td>10⁰</td><td>0.15</td></tr> <tr><td>10¹</td><td>1.15</td></tr> <tr><td>10²</td><td>2.45</td></tr> <tr><td>10³</td><td>2.75</td></tr> <tr><td>10⁴</td><td>2.85</td></tr> </tbody> </table>	Biotinylated Recombinant Human MICA Fc Avi-tag (ng/mL)	Mean OD	10 ⁻²	0.05	10 ⁻¹	0.05	10 ⁰	0.15	10 ¹	1.15	10 ²	2.45	10 ³	2.75	10 ⁴	2.85
Biotinylated Recombinant Human MICA Fc Avi-tag (ng/mL)	Mean OD																
10 ⁻²	0.05																
10 ⁻¹	0.05																
10 ⁰	0.15																
10 ¹	1.15																
10 ²	2.45																
10 ³	2.75																
10 ⁴	2.85																

SDS-PAGE



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA