

## Recombinant Human MICA Protein

**Cat. No.** MICA-823H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human MICA protein without tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	383
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	33.6 kDa
<b>AA Sequence</b>	MGLGPVFLLLAGIFPFAPPGAAAEPHSLRYNLTVLSWDGVSQSGFLTEVHLDGQPFL RCDRQKCRAPQGGQWAEDVLGNKTWDRETRDLTGNGKDLRMTLAHIKDQKEGLH

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SLQEIRVCEIHEDNSTRSSQHFYYDGELFLSQNLETKEWTMPQSSRAQTLAMNVRN  
 FLKEDAMKTKTHYHAMHADCLQELRRYLKSGVVLRRTPPMVNVTRSEASEGNITV  
 TCRASGFYPWNITLSWRQDGVSLSHDTQQWGDVLPDGNNGTYQTWVATRICQGEE  
 QRFTCYMEHSGNHSTHPVPSGKVLVLQSHWQTFHVSAAAAAIFVIIIIFYVRCCKKK  
 TSAAEGPELVSLQVLDQHPVGTSDHRDATQLGFQPLMSDLGSTGSTEGA

<b>Purity</b>	> 98%
<b>Applications</b>	Migration Assay;
<b>Stability</b>	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
<b>Storage</b>	At -20 centigrade.
<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
<b>Reconstitution</b>	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

<b>Gene Name</b>	MICA MHC class I polypeptide-related sequence A [ Homo sapiens (human) ]
<b>Official Symbol</b>	MICA



<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">100507436</a>
<b>mRNA Refseq</b>	<a href="#">NM_000247</a>
<b>Protein Refseq</b>	<a href="#">NP_000238</a>
<b>MIM</b>	<a href="#">600169</a>
<b>UniProt ID</b>	<a href="#">Q29983</a>

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