

# Recombinant Full Length Human HLA-DMA Protein

**Cat. No.** HLA-DMA-230HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human HLA DM protein with an N terminal proprietary tag;<br>Predicted MW 54.45 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 261 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | HLA-DMA belongs to the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DMA) and a beta chain (DMB), both anchored in the membrane. It is located in intracellular vesicles. DM plays a central role in the peptide loading of MHC class II molecules by helping to release the CLIP molecule from the peptide binding site. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and the cytoplasmic tail. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 54.450kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MGHEQNQGAALLQMLPLLWLLPHSWAVPEAPTPMWPDDLQ NHTFLHTVYCQDGS<br>PSVGLSEAYDEDQLFFFDQSQNTRVP RLPEFADWAQEQQGDAPAILFDKEFCEWMIQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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QIGPKLDGKI PVSRGFPIAEVFTLKPLEFGKPNLVCFVSNLFPPMLTVN WQHHSVP  
VEGFGPTFVSAVDGLSFQAFSYLNFTPEPSDIF SCIVTHEIDRYTAIAYWVPRNALPS  
DLLENVLCGVAFGLG VLGIIVGIVLIIYFRKPCSGD

**Purity** Proprietary Purification

**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

**Storage Buffer** pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

## GENE INFORMATION

**Gene Name** HLA-DMA major histocompatibility complex, class II, DM alpha [ Homo sapiens ]

**Official Symbol** HLA-DMA

**Synonyms** HLA-DMA; major histocompatibility complex, class II, DM alpha; HLA class II histocompatibility antigen, DM alpha chain; D6S222E; RING6

**Gene ID** 3108

**mRNA Refseq** NM\_006120

**Protein Refseq** NP\_006111

**MIM** 142855

**UniProt ID** P28067

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