Recombinant Human HLA-DMA

Cat. No. HLA-DMA-27713TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HLA DM protein with an N terminal proprietary tag; Predicted MW 54.45 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	261 amino acids
Description	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.
Molecular Weight	54.450kDa
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MGHEQNQGAALLQMLPLLWLLPHSWAVPEAPTPMWPDDLQ NHTFLHTVYCQDGS PSVGLSEAYDEDQLFFFDFSQNTRVP RLPEFADWAQEQGDAPAILFDKEFCEWMIQ QIGPKLDGKI PVSRGFPIAEVFTLKPLEFGKPNTLVCFVSNLFPPMLTVN WQHHSVP VEGFGPTFVSAVDGLSFQAFSYLNFTPEPSDIF SCIVTHEIDRYTAIAYWVPRNALPS DLLENVLCGVAFGLG VLGIIVGIVLIIYFRKPCSGD

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
Chromosome	6p21.3

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Location	
Pathway	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem;

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