

Recombinant Human HLA-DQA1 protein, His-tagged

Cat. No. HLA-DQA1-13815H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HLA-DQA1(24-220 aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	24-220 aa
Description	HLA-DQA1 belongs to the HLA class II alpha chain paralogues. The class II molecule is a heterodimer consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B Lymphocytes, dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa. It is encoded by 5 exons; exon 1 encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DQ molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to four different molecules. Typing for these polymorphisms is routinely done for bone marrow transplantation.
Form	1M PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, pH8.0), added with 300 mM Imidazole and 0.7% sarcosyl, 15% glycerol.
AA Sequence	EDIVADHVASYGVNLYQSYGPSGQYTHEFDGDEQFYVDLGRKETVWCLPVLQRQFR

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FDPQFALTNI AVLKHNLSL IKRSNSTAATNEVPEVTVFSKSPVTLGQPNILICLVDNI
 FPPVVNITWLSNGHSVTEGVSETSFLSKSDHSFFKI SYLTLLPSAEESYDCKVEHWG
 LDKPLLKHWEPEIPAPMSELTETVVC

Storage

Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months. Avoid freeze thaw cycles.

GENE INFORMATION

Gene Name [HLA-DQA1 major histocompatibility complex, class II, DQ alpha 1 \[Homo sapiens \]](#)

Official Symbol [HLA-DQA1](#)

Synonyms

HLA-DQA1; major histocompatibility complex, class II, DQ alpha 1; HLA DQA; HLA class II histocompatibility antigen, DQ alpha 1 chain; CELIAC1; HLA-DCA; DC-alpha; DC-1 alpha chain; MHC HLA-DQ alpha; MHC class II DQA1; MHC class II antigen; leucocyte antigen DQA1; MHC class II HLA-DQ-alpha-1; leukocyte antigen alpha chain; MHC class II surface glycoprotein; MHC class II HLA-D alpha glycoprotein; HLA class II histocompatibility antigen, DQ(W3) alpha chain; CD; GSE; DQ-A1; HLA-DQA; FLJ27088; FLJ27328; MGC149527;

Gene ID [3117](#)

mRNA Refseq [NM_002122](#)

Protein Refseq [NP_002113](#)

MIM [146880](#)

UniProt ID [P01909](#)

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Chromosome Location	6p21.3
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; Asthma, organism-specific biosystem; Asthma, conserved biosystem;
Function	MHC class II receptor activity; MHC class II receptor activity;

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