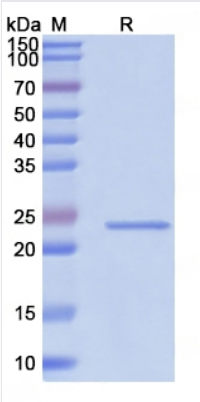
HLA-DQA1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	HLA-DQA1, Recombinant Protein
Full Product Name	Recombinant Human HLA-DQA1 Protein, N-His
Product Gene Name	HLA-DQA1 recombinant protein
Product Synonym Names	DC-alpha; MHC class II DQA1; HLA class II histocompatibility antigen; DQ alpha 1 chain; DC-1 alpha chain; HLA-DQA1; HLA-DCA
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	254
Sequence Positions	Glu24-Glu216
OMIM	146880
3D Structure	ModBase 3D Structure for P01909
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for HLA-DQA1 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for HLA-DQA1 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for HLA-DQA1 recombinant protein	MBS1577215 is a recombinant protein targeting HLA-DQA1. Also known as Recombinant Human HLA-DQA1 Protein, N-His. Host: E coli.
Other Notes	Small volumes of HLA-DQA1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of HLA-DQA1 recombinant protein
SDS PAGE for Recombinant Human HLA-DQA1 Protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HLA-DQA1. It may not necessarily be applicable to this product.

NCBI GI #	122188
NCBI GeneID	3117
NCBI Accession #	P01909.1
UniProt Primary Accession #	P01909
UniProt Secondary Accession #	O19630; O19706; P01907; P01908; P04225; P04226; P05536; P79553; Q06751; Q29876; Q29994
UniProt Related Accession #	P01909
NCBI Official Full Name	HLA class II histocompatibility antigen, DQ alpha 1 chain
NCBI Official Synonym Full Names	major histocompatibility complex, class II, DQ alpha 1
NCBI Official Symbol	HLA-DQA1
NCBI Official Synonym Symbols	CD; GSE; DQ-A1; CELIAC1; HLA-DQA
UniProt Protein Name	HLA class II histocompatibility antigen, DQ alpha 1 chain
UniProt Synonym Protein Names	DC-1 alpha chain; DC-alpha; HLA-DCA; MHC class II DQA1
Protein Family	HLA class II histocompatibility antigen
UniProt Gene Name	HLA-DQA1
UniProt Entry Name	DQA1_HUMAN
NCBI Protein Information	HLA class II histocompatibility antigen, DQ alpha 1 chain; 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 sur
NCBI Summary for HLA-DQA1	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. [provided by RefSeq, Jul 2008]

UniProt Comments for HLA-DQA1	HLA-DQA1 iso4: Protein type: Membrane protein, integral; Cell surface Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: Golgi membrane; membrane; lysosomal membrane; integral to plasma membrane; plasma membrane; trans-Golgi network membrane; endosome membrane; MHC class II protein complex; external side of plasma membrane Molecular Function: MHC class II receptor activity; peptide antigen binding Biological Process: positive regulation of T cell differentiation; cytokine and chemokine mediated signaling pathway; T cell costimulation; antigen processing and presentation of exogenous peptide antigen via MHC class II; immune response; T cell receptor signaling pathway
Research Articles on HLA-DQA1	**1.** Data indicate HLA-DQA1*02:01-HLA-DRB1*07:01 haplotype acociate with pancreatitis induced by thiopurine immunosuppressants.
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