Recombinant Human major histocompatibility complex, class II, DR alpha, His-tagged

Cat. No. HLA-DRA-490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLA-DRA, 26-216aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	26-216 a.a.
Description	Major histocompatibility complex, class II, DR alpha, also known as HLA-DRA, binds peptides derived from antigens that access the endocytic route of antigen presenting cells (APC) and presents them on the cell surface for recognition by the CD4 T-cells. The peptide binding cleft accommodates peptides of 10-30 residues. The peptides presented by MHC class II molecules are generated mostly by degradation of proteins that access the endocytic route, where they are processed by lysosomal proteases and other hydrolases. Recombinant human HLA-DRA, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	24.3 kDa (212aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MIKEEHVIIQ AEFYLNPDQS GEFMFDFDGD

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	EIFHVDMAKK ETVWRLEEFG RFASFEAQGA LANIAVDKAN LEIMTKRSNY TPITNVPPEV TVLTNSPVEL REPNVLICFI DKFTPPVVNV TWLRNGKPVT TGVSETVFLP REDHLFRKFH YLPFLPSTED VYDCRVEHWG LDEPLLKHWE FDAPSPLPET TE
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	HLA-DRA major histocompatibility complex, class II, DR alpha [Homo sapiens]
Official Symbol	HLA-DRA
Synonyms	HLA-DRA; major histocompatibility complex, class II, DR alpha; HLA DRA1; HLA class II histocompatibility antigen, DR alpha chain; MHC class II antigen DRA; MHC cell surface glycoprotein; histocompatibility antigen HLA-DR alpha; MLRW; HLA-DRA1; FLJ51114;
Gene ID	3122
mRNA Refseq	NM_019111
Protein Refseq	NP_061984
MIM	142860

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UniProt ID	P01903
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;

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