

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

Cat. No. HLA-DOA-232H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLA-DOA, 26-217aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	26-217 a.a.
Description	HLA-DOA belongs to the HLA class II alpha chain paralogues. HLA-DOA forms a heterodimer with HLA-DOB. The heterodimer, HLA-DO, is found in lysosomes in B cells and regulates HLA-DM-mediated peptide loading on MHC class II molecules. In comparison with classical HLA class II molecules, this gene exhibits very little sequence variation, especially at the protein level. Recombinant human HLA-DAO protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	24.1 kDa (215aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSTKADHMG SYGPAFYQSY GASGQFTHEF DEEQLFSVDL KKSEAVWRLP EFGDFARFDP QGGLAGIAAI KAHLDILVER SNRSRAINVP PRVTVLPKSR VELGQPNILI CIVDNIFPPV INITWLRNGQ TVTEGVAQTS FYSQPDHLFR KFHLYLPFVPS AEDVYDCQVE HWGLDAPLLR HWELQVPIPP PDAME

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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	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	HLA-DOA major histocompatibility complex, class II, DO alpha [Homo sapiens]
Official Symbol	HLA-DOA
Synonyms	HLA-DOA; major histocompatibility complex, class II, DO alpha; HLA DNA, HLA DZA; HLA class II histocompatibility antigen, DO alpha chain; HLA D0 alpha; HLA-D0-alpha; MHC DN-alpha; MHC DZ alpha; lymphocyte antigen; MHC class II antigen DOA; major histocompatibility complex, class II, DN alpha; HLADZ; HLA-DNA; HLA-DZA;
Gene ID	3111
mRNA Refseq	NM_002119
Protein Refseq	NP_002110
MIM	142930
UniProt ID	P06340
Chromosome Location	6p21.3

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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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