Recombinant Human HLA-DOB, His-tagged

Cat. No. HLA-DOB-190H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLA-DOB, 27-224aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	27-224aa
Description	HLA-DOB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DOA) and a beta chain (DOB), both anchored in the membrane. It is located in intracellular vesicles. DO suppresses peptide loading of MHC class II molecules by inhibiting HLA-DM. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and exon 5 encodes the cytoplasmic tail. Recombinant human HLA-DOB 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	25.2 kDa (222aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSGTDSPED FVIQAKADCY FTNGTEKVQF VVRFIFNLEE YVRFDSDVGM FVALTKLGQP DAEQWNSRLD LLERSRQAVD

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	GVCRHNYRLG APFTVGRKVQ PEVTVYPERT PLLHQHNLLH CSVTGFYPGD IKIKWFLNGQ EERAGVMSTG PIRNGDWTFQ TVVMLEMTPE LGHVYTCLVD HSSLLSPVSV EWRAQSEYSW RK
Purity	>95% 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-DOB major histocompatibility complex, class II, DO beta [Homo sapiens]
Official Symbol	HLA-DOB
Synonyms	HLA-DOB; major histocompatibility complex, class II, DO beta; HLA class II histocompatibility antigen, DO beta chain; MHC class II antigen DOB; DOB; FLJ57033;
Gene ID	3112
mRNA Refseq	NM_002120
Protein Refseq	NP_002111
MIM	600629
UniProt ID	P13765

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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;

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