

Recombinant Human major histocompatibility complex, class II, DR beta 1, His-tagged

Cat. No. HLA-DRB1-488H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLA-DRB1,30-227aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	30-227 a.a.
Description	HLA-DRB1 belongs to the HLA class II beta chain paralogs. The class II molecule is a heterodimer consisting of an alpha (DRA) and a beta chain (DRB), 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 beta chain is approximately 26-28 kDa. It is encoded by 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-DRB1 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 (219aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGDTRPRFLW QPKRECHFFN GTERVRFLDR YFYNQEESVR FDSDVGEFRA VTELGRPDAE YWNSQKDILE QARAAVDTYC

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RHNYGVVESF TVQRRVQPKV TVYPSKTQPL QHHNLLVCSV SGFYPGSIEV
RWFLNGQEEK AGMVSTGLIQ NGDWTFQTLV MLETVPRSGE VYTCQVEHPS
VTSPLTVEWR ARSESAQSK

Purity >85% 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-DRB1 major histocompatibility complex, class II, DR beta 1 \[Homo sapiens \]](#)

Official Symbol HLA-DRB1

Synonyms HLA-DRB1; major histocompatibility complex, class II, DR beta 1; HLA DR1B; DW2.2/DR2.2; MHC class II antigen; lymphocyte antigen DRB1; MHC class II HLA-DRw10-beta; human leucocyte antigen DRB1; MHC class II HLA-DR beta 1 chain; MHC class II HLA-DR-beta cell surface glycoprotein; HLA class II histocompatibility antigen, DR-1 beta chain; SS1; DRB1; DRw10; HLA-DRB; HLA-DR1B; FLJ75017; FLJ76359;

Gene ID [3123](#)

mRNA Refseq [NM_001243965](#)

Protein Refseq [NP_001230894](#)

MIM [142857](#)

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UniProt ID	P01911
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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