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**Product Data Sheet**


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Product Name: HLA-DRB1 Human  
 Cat. No.: GP23650  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DRB1; HLA DRB1; HLA-DR1B; HLA-DRB1; MHC class II antigenDRB1 16; DR-16; DR16; Human Leucocyte AntigenDRB1; MHC ClassIIHLA-DR-Beta Cell Surface Glycoprotein; MHC Class IIHLA-DRw10-Beta.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGDTRPRFLW QPKRECHFFN GTERVRFLDR YFYNQEESVR FSDVGEFRA VTELGRPDAEYWNSQKDILE QARAAVDTYC RHNYGVVESF TVQRRVQPKV TVYPSKTQPL QHHNLLVCSV SGFYPGSIEVRWFLNGQEEK AGMVSTGLIQ NGDWTFQTLV MLETVPRSGE VYTCQVEHPS VTSPLTVEWR ARSESAQSK		
Formulation	HLA-DRB1 protein solution (1mg/ml) containing 20mM Tris-HClbuffer (pH 8.0), 0.4M Urea and 10% glycerol.		

**Introduction**

Major Histocompatibility Complex Class II DR Beta 1 also known as HLA-DRB1 is a member of the HLA class II beta chain paralogs. Molecule class II is a heterodimer consisting of an alpha (DRA) and a beta chain (DRB), both anchored in the membrane. HLA-DRB1 takes an essential part 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). Furthermore, the beta chain is approximately 26- 28 kDa. It is encoded by 6 exons. While 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.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Please avoid freeze thaw cycles.

### Background

HLA-DRB1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 219 amino acids (30-227 a.a) and having a molecular mass of 25.2kDa. HLA-DRB1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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