

## 32-13259: HLA-DRB1 Human, Sf9

**Alternative Name :** DRB1, HLA DRB1, HLA-DR1B, HLA-DRB1, MHC class II antigen DRB1 16, DR-16, DR16, Human Leucocyte Antigen DRB1, MHC Class II HLA-DR-Beta Cell Surface Glycoprotein, MHC Class II HLA-DRw10-Beta.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

HLA-DRB1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 207 amino acids (30-227a.a.) and having a molecular mass of 24.0kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). HLA-DRB1 is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

<b>Amount :</b>	1 µg / 5 µg
<b>Purification :</b>	Greater than 85.0% as determined by SDS-PAGE.
<b>Content :</b>	HLA-DRB1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 30% glycerol.
<b>Storage condition :</b>	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% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	ADPGDTRPRF LWQPKRECHF FNGTERVRFL DRYFYNQEES VRFDSVGEF RAVTELGRPDAEYWNSQKDI LEQARAAVDT YCRHNYGVVE SFTVQRRVQP KVTVYPSKTQ PLQHHNLLVC SVSGFYPGSIEVRWFLNGQE EKAGMVSTGL IQNGDWTFQT LVMLETVPRS GEVYTCQVEH PSVTSPLTVEWRARSESAQS KHHHHHHH