
Product Data Sheet

Product Name: HLA-DRB1 Human, Sf9

Cat. No.: GP23651

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	ADPGDTRPRF LWQPKRECHF FNGTERVRFL DRYFYNQEES VRFSDVGEF RAVTELGRPD AEYWNSQKDI LEQARAAVDT YCRHNYGVVE SFTVQRRVQP KVTVYPSKTQ PLQHHNLLVC SVSGFYPGSI EVRWFLNGQE EKAGMVSTGL IQNGDWTFQT LVMLETVPRS GEVYTCQVEH PSVTSPLTVE WRARSESAQS KHHHHHH		
Formulation	HLA-DRB1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 30% 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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

Product Data Sheet

HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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