9051 Mira Mesa Blvd, #910094
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HLA-DRB1 Human

Major Histocompatibility Complex Class II DR Beta 1 Human Recombinant
RCP1027

Product Overview

Name	HLA-DRB1 Human

Description

Major Histocompatibility Complex Class II DR Beta 1 Human Recombinant

Accession (Primary)	Q29974

Synonyms

DRB1, HLA DRB1, HLA-DR1B, HLA-DRB1, MHC class II antigen DRB1 16, DR-16, DR16, Human Leucocyte AntigenDRB1, MHC Class IIHLA-DR-Beta Cell Surface Glycoprotein, MHC Class IIHLA-DRw10-Beta.

Introduction

Major Histocompatibility Complex Class II DR Beta 1 also known as HLA-DRB1 ia 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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

HLA-DRB1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.

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% HSA or BSA). Please avoid freeze thaw cycles.

Purity

Greater than 85% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH M GDTRPRFLW QPKRECHFFN GTERVRFLDR YFYNQEESVR FDSDVGEFRA

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

Precautions

HLA-DRB1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q29974)