

Recombinant human HLA-DRB1 protein

Catalog Number: ATGP2585

PRODUCT INFORMATION

Expression system

E.coli

Domain

30-227aa

UniProt No.

P01911

NCBI Accession No.

NP_002115

Alternative Names

Major histocompatibility complex class II DR beta 1, Major histocompatibility complex, class II, DR beta 1, DRB1, HLA DRB1, HLA-DR1B, HLA-DRB1

PRODUCT SPECIFICATION

Molecular Weight

25.2 kDa (219aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGDTRPRFLW QPKRECHFFN GTERVRFLLDR YFYNQEEESVR FDSDVGEFRA VTELGRPDAE
YWNSQKDILE QARAAVDTYC RHNYGVVESF TVQRRVQPKV TVYPSKTQPL QHHNLLVCSV SGFYPGSIEV RWFLNGQEEK
AGMVSTGLIQ NGDWTFQTLV MLETVPRSGE VYTCQVEHPS VTSPLTVEWR ARSESAQSK

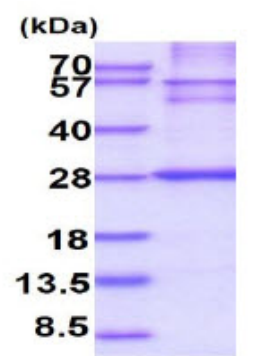
General References

Menendez-Benito V., et al. (2007) Immunity. 26:1-3

De Gassart A., et al. (2008) Proc. Natl. Acad. Sci. u.S.A. 105:3491-3496

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.