

HLA-DRB1,30-227aa Human, His tag, E.coli

Cat.NO.: TP02462

3th Edition

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

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 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.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight:25.2 kDa (219aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGDTRPRFLWQPKRECHFFNGTERVRFDRYFYNQEESVRFDSVDVGEFRAVTE
LGRPDAEYWNSQKDILEQARAAVDITYCRHNYGVVESFTVQRRVQPKVTYVPSKTQPLQHHNLLVCSVSGFYPPGSI
EVRWFLNGQEEKAGMVSTGLIQNGDWFQTLVMLETVPRSGEVYTCQVEHPSVTSPPLTVEWRARSESAQSK

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.