Recombinant human HLA-DRB1 protein

Catalog Number: ATGP3818

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
30-227aa

UniProt No.
Q29974

NCBI Accession No.
NP_002115

Alternative Names
Major histocompatibility complex, class II, DR beta 1, HLA-DRB1, DRB1, HLA-DR1B, HLA-DRB, SS1

PRODUCT SPECIFICATION

Molecular Weight
24 kDa (207aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol

Purity
> 85% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

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, also known as major histocompatibility complex, class II, DR beta 1 precursor, belongs to the human leukocyte antigen (HLA) class II beta chain paralogues. 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 to T helper cells. It helps the immune system

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distinguish the body's own proteins from proteins made by foreign invaders such as viruses and bacteria. It is associated with an increased incidence of rheumatoid arthritis. Recombinant human HLA-DRB1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

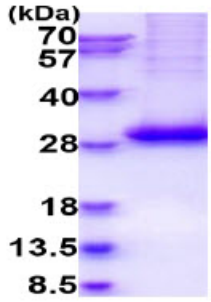
ADPGDTRPRF LWQPKRECHF FNGTERVRFL DRYFYNQEES VRFDSDVGEF RAVTELGRPD AEYWNSQKDI LEQARAAVDT YCRHNYGVVE SFTVQRRVQP KVTVYPSKTQ PLQHHNLLVC SVSGFYPGSI EVRWFLNGQE EKAGMVSTGL IQNGDWTFQT LVMLETVPRS GEVYTCQVEH PSVTSPLTVE WRARSESAQS KHHHHHH

General References

De Silvestri A., et al. (2017) Autoimmun Rev. 16:1230-1236.
Riberdy JM., et al. (1992) Nature. 360:474-477.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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