Recombinant human HLA-DOB protein

Catalog Number: ATGP2683

PRODUCT INFORMATION

Expression system
E.coli

Domain
27-224aa

UniProt No.
P13765

NCBI Accession No.
NP_002111

Alternative Names
Major histocompatibility complex class II DO beta, Major histocompatibility complex, class II, DO beta, DOB

PRODUCT SPECIFICATION

Molecular Weight
25.2 kDa (222aa)

Concentration
1mg/ml (determined by Bradford assay)

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

Purity
> 95% 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-DOB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DOA) and a beta chain (DOB), both anchored in the membrane. It is located in intracellular vesicles. DO suppresses peptide loading of MHC class II molecules by inhibiting HLA-DM. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 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.

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Recombinant human HLA-DOB protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

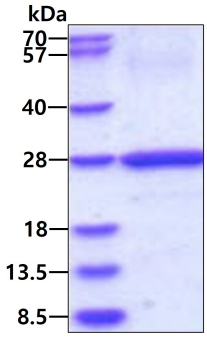
<MGSSHHHHHH SSGLVPRGSH MGSG>TDSPED FVIQAKADCY FTNGTEKVQF VVRFIFNLEE YVRFDSDVGM FVALTKLGQP DAEQWNSRLD LLERSRQAVD GVCRHNYRLG APFTVGRKVQ PEVTVYPERT PLLHQHNLLH CSVTGFYPGD IKIKWFLNGQ EERAGVMSTG PIRNGDWTFQ TVVMLEMTPE LGHVYTCLVD HSSLLSPVSV EWRAQSEYSW RK

General References

Naruse T.K., et al. (2002) Tissue Antigens. 59:512-519
Beck S., et al. (1996) J. Mol. Biol. 255:1-13

DATA

SDS-PAGE



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