

Recombinant human HLA-DOA protein

Catalog Number: ATGP2186

PRODUCT INFORMATION

Expression system

E.coli

Domain

26-217aa

UniProt No.

P06340

NCBI Accession No.

NP_002110

Alternative Names

HLA class II histocompatibility antigen DO alpha chain, HLA class II histocompatibility antigen, DO alpha chain, HLA-DNA, HLA-DZA, HLADZ

PRODUCT SPECIFICATION

Molecular Weight

24.1 kDa (215aa)

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-DOA belongs to the HLA class II alpha chain paralogues. HLA-DOA forms a heterodimer with HLA-DOB. The heterodimer, HLA-DO, is found in lysosomes in B cells and regulates HLA-DM-mediated peptide loading on MHC class II molecules. In comparison with classical HLA class II molecules, this gene exhibits very little sequence variation, especially at the protein level. Recombinant human HLA-DAO protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGS>TKADHMG SYGPAFYQSY GASGQFHEF DEEQLFSDVL KKSEAVWRLP
EFGDFARFDP QGGLAGIAAI KAHLDILVER SNRSRAINVP PRVTVLPKSR VELGQPNILI CIVDNIFFPV INITWLRNGQ
TVTEGVAQTS FYSQPDHLFR KFHYLPFVPS AEDVYDCQVE HWGLDAPLLR HWELQVPIPP PDAME

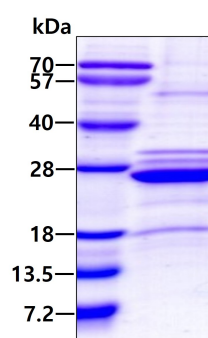
General References

Yoon,T., et al. (2012) Proc. Natl. Acad. Sci. u.S.A. 109 (28), 11276-11281

Gieger,C., et al. (2012) Nature 480 (7376), 201-208

DATA

SDS-PAGE



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