

Recombinant human CD1a protein

Catalog Number: ATGP3594

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-300aa

UniProt No.

P06126

NCBI Accession No.

NP_001754

Alternative Names

T-cell surface glycoprotein CD1a isoform 1, CD1A, CD1, FCB6, HTA1, R4, T6

PRODUCT SPECIFICATION

Molecular Weight

33.2 kDa (291aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% 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

CD1A, also known as T-cell surface glycoprotein CD1a isoform 1, is the CD1 family of transmembrane glycoproteins. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. Also, it is structurally related to the major histocompatibility complex (MHC)

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proteins and form heterodimers with beta-2-microglobulin. Recombinant human CD1A, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ADPDGLKEPL SFHVTWIASF YNHSWKQNLV SGWLSDLQTH TWDSNSSTIV FLCPWSRGNF SNEEWKELET LFRIRTIRSF
EGIRRYAHEL QFEYPFEIQV TGGCELHSGK VSGSFLQLAY QGSDFVSFQN NSWLPYPVAG NMAKHFCKVL NQNQHENDIT
HNLLSDTCPR FILGLLDAGK AHLQRQVKPE AWLSHGPPSPG PGHLQLVCHV SGFYKPKVWV MWMRGEQEQQ GTQRGDILPS
ADGTWYLRAT LEVAAGEAAD LSCRVKHSSL EGQDIVLYWE HHSSVHHHHH H

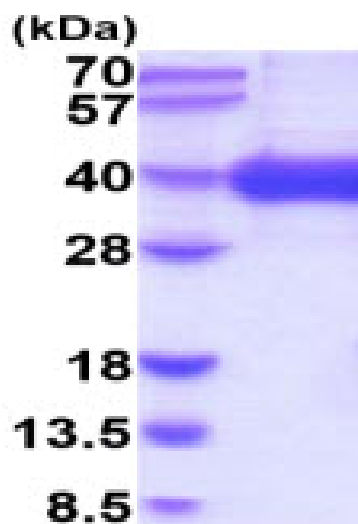
General References

West JA., et al, (2014) PLoS ONE 9:E109586.

Seshadri C., et al, (2014) Genes Immun. 15:195-198.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)