Recombinant human CD1d protein

Catalog Number: ATGP3678

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
20-301aa

UniProt No.
P15813

NCBI Accession No.
NP_001757.1

Alternative Names
Antigen-presenting glycoprotein CD1d isoform 1, CD1D, CD1A, R3, R3G1

PRODUCT SPECIFICATION

Molecular Weight
32.9 kDa (290aa)

Concentration
0.25mg/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
CD1D, also known as antigen-presenting glycoprotein CD1d isoform 1, is a transmembrane glycoprotein in the CD1 family of glycolipid antigen-presenting MHC-like molecules. CD1d-presented lipid antigens activate a special class of T cells, known as natural killer T (NKT) cells, through the interaction with the T-cell receptor present on NKT membranes. When activated, NKT cells rapidly produce Th1 and Th2 cytokines, typically represented by

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interferon-gamma and interleukin 4 production. Recombinant human CD1D protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

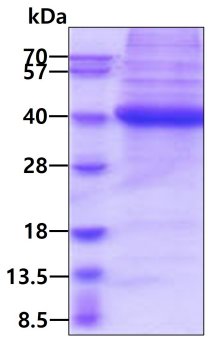
EVPQRLFPLR CLQISSFANS SWTRTDGLAW LGELQTHSWS NDSDTVRSLK PWSQGTFSDQ QWETLQHIFR VYRSSFTRDV KEFAKMLRLS YPLELQVSAG CEVHPGNASN NFFHVAFQGK DILSFQGTSW EPTQEAPLWV NLAIQVLNQD KWTRETVQWL LNGTCPQFVS GLLESGKSEL KKQVKPKAWL SRGPSPGPGR LLLVCHVSGF YPKPVWVKWM RGEQEQQGTQ PGDILPNADE TWYLRATLDV VAGEAAGLSC RVKHSSLEGQ DIVLYWGGSY TS<LEHHHHHH>

General References

Broxmeyer HE., et al, (2012) Blood. 119:5731-5741.
Huh JY., et al, (2017) Diabetes. 66:835-847.

DATA

SDS-PAGE



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