

Recombinant human CD1b protein

Catalog Number: ATGP1783

PRODUCT INFORMATION

Expression system

E.coli

Domain

18-303aa

UniProt No.

P29016

NCBI Accession No.

NP_001755

Alternative Names

T-cell surface glycoprotein CD1b, CD1, CD1A, R1

PRODUCT SPECIFICATION

Molecular Weight

34.2 kDa (310aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

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

CD1B is a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. This protein contains 1 Ig-like (immunoglobulin-like) domain. CD1B is antigen-presenting protein that binds self and non-self lipid and glycolipid antigens and presents them to T-cell receptors on natural killer T-cells. Recombinant human CD1B protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

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Amino acid Sequence

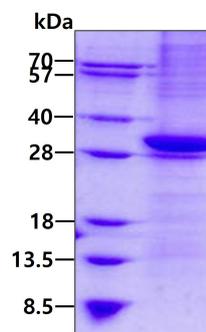
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VKNASCVPSP EGGsRAQKFC ALIIQYQGIM ETVRILLYET CPLYLLGVLN AGKADLQRQV KPEAWLSSGP SPGPGRQLQLV
CHVSGFYKPK VVWMWMRGEQ EQQGTQLGDI LPNANWTWYL RATLDVADGE AAGLSCRVKH SSLEGQDIIL YWRNPTSIGS

General References

Shamshiev A., et al. (2000) Immunity 13:255-264
Winau F., et al. (2004) Nat. Immunol. 5:169-174

DATA

SDS-PAGE



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