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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

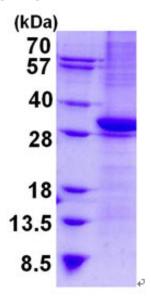
MGSSHHHHHH SSGLVPRGSH MGSMSEHAFQ GPTSFHVIQT SSFTNSTWAQ TQGSGWLDDL QIHGWDSDSG TAIFLKPWSK GNFSDKEVAE LEEIFRVYIF GFAREVQDFA GDFQMKYPFE IQGIAGCELH SGGAIVSFLR GALGGLDFLS VKNASCVPSP EGGSRAQKFC ALIIQYQGIM ETVRILLYET CPRYLLGVLN AGKADLQRQV KPEAWLSSGP SPGPGRLQLV CHVSGFYPKP VWVMWMRGEQ EQQGTQLGDI LPNANWTWYL RATLDVADGE 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





15% SDS-PAGE (3ug)

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