

# Recombinant human CD1b protein

Catalog Number: ATGP1783

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

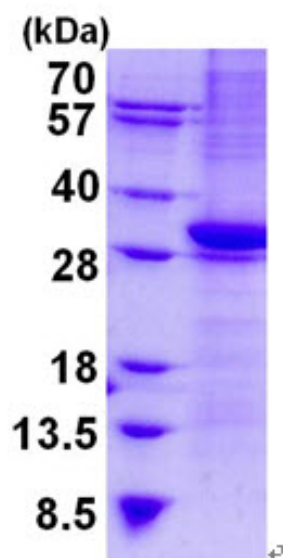
MGSSHHHHHH SSGLVPRGSH MGSMSEHAFQ GPTSFHVIQT SSFTNSTWAQ TQGSGWLDDL QIHGWDSDSG  
TAIFLKPWSK GNFSKKEVAE LEEIFRVYIF GFAREVQDFA GDFQMKYPFE IQGIAGCELH SGGAIVSFLR GALGGLDFLS  
VKNASCVSP EGGsRAQKFC ALIIQYQGIM ETVRILLYET CRYLLGVLN AGKADLQRQV KPEAWLSSGP SPGPGRQLV  
CHVSGFYKPK VVWMMRGEQ EQQGTQLGDI LPNANWTWYL RATLDVADGE 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



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

15% SDS-PAGE (3ug)