

Recombinant human CD1e protein

Catalog Number: ATGP2609

PRODUCT INFORMATION

Expression system

E.coli

Domain

32-305aa

UniProt No.

P15812

NCBI Accession No.

NP_112155

Alternative Names

T-cell surface glycoprotein CD1e, T-cell surface glycoprotein CD1e, CD1A, R2

PRODUCT SPECIFICATION

Molecular Weight

33.1 kDa (297aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

CD1E 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. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. CD1E localizes within Golgi compartments, endosomes, and lysosomes, and is cleaved into a stable soluble form. The

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soluble form is required for the intracellular processing of some glycolipids into a form that can be presented by other CD1 family members. Recombinant human CD1E protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSEEQLSFR MLQTSSFANH SWAHSEGS GW LGDLQTHGWD TVLGTIRFLK
PWSHG NFSKQ ELKNLQSLFQ LYFHSFIQIV QASAGQFQLE YPFEIQILAG CRMNAPQIFL NMAYQGSDFL SFQGISWEPS
PGAGIRAQNI CKVLNRYLDI KEILQSLLGH TCPRFLAGLM EAGESELKRK VKPEAWLSCG PSPGPGRLQL VCHVSGFYPK
PVVWMWMRGE QEQRGTQRGD VLPNADETWY LRATLDVAAG EAAGLSCRVK HSSLGGHDLI IHWGGYS

General References

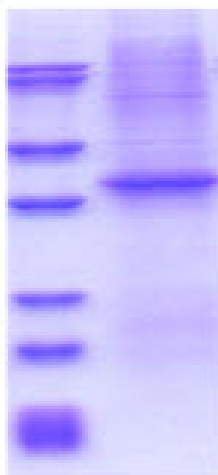
Angenieux C., et al (2000). J. Biol. Chem. 275:37757-37764
de la Salle H., et al (2005). Science 310:1321-1324

DATA

SDS-PAGE

(kDa)

70
57
40
28
18
13.5
8.5



15% SDS-PAGE (3ug)

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