

Recombinant Human CD1E, His-tagged

Cat. No. CD1E-5113H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CD1E protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
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 soluble form is required for the intracellular processing of some glycolipids into a form that can be presented by other CD1 family members.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	33.1 kDa (297aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSEEQLSFR MLQTSSFANH SWAHSEGSGW LGDLQTHGWD TVLGTIRFLK PWSHGNFSKQ ELKNLQSLFQ LYFHSFIQIV QASAGQFQLE YPFEIQILAG CRMNAPQIFL NMAYQGSDFL SFQGISWEPS

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PGAGIRAQNI CKVLNRYLDI KEILQSLLGH TCPRFLAGLM EAGESELKRK
VKPEAWLSCG PSPGPGRLQL VCHVSGFYPK PVWVMWMRGE QEQRGTQRGD
VLPNADETWY LRATLDVAAG EAAGLSCRVK HSSLGGHDLI IHWGGYS

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CD1E CD1e molecule [Homo sapiens]

Official Symbol CD1E

Synonyms CD1E; CD1e molecule; CD1e antigen , CD1E antigen, e polypeptide; T-cell surface glycoprotein CD1e, membrane-associated; R2G1; hCD1e; thymocyte antigen CD1E; CD1E antigen, e polypeptide; leukocyte differentiation antigen; differentiation antigen CD1-alpha-3; R2; CD1A; FLJ17609;

Gene ID 913

mRNA Refseq NM_001042583

Protein Refseq NP_001036048

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MIM	188411
UniProt ID	P15812
Chromosome Location	1q22-q23
Pathway	Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;

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