Recombinant Human CD1e molecule, His-tagged

Cat. No. CD1E-512H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CD1E, 32- 305aa Human, His tag, 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. Recombinant human CD1E protein, fused to His-tag at N-terminus, was expressed in E.coli.
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
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. 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
MIM	188411
UniProt ID	P15812

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Chromosome Location	1q22-q23
Pathway	Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;

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