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**Product Data Sheet**


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Product Name: CD1E Human  
 Cat. No.: GP23001  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CD1A; R2; T-cell surface glycoprotein CD1e; membrane-associated; R2G1; sCD1e.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEEQLSFR MLQTSSFANH SWAHSEGS GW LGDLQTHGWD TVLGTIRFLKPWSHG NFSKQ ELKNLQSLFQ LYFHSFIQIV QASAGQFQLE YPFEIQILAG CRMNAPQIFL NMAYQGSDFLSFQGISWEPS PGAGIRAQNI CKVLNRYLDI KEILQSLLGH TCPRFLAGLM EAGESELKRK VKPEAWLSCGPSPGPGRLQL VCHVSGFY PK PVWVMWMRGE QEQRGTQRGD VLPNADETWY LRATLDVAAG EAAGLSCRVKHSSLGGHDLI IHWGGYS.		
Formulation	CD1E protein solution (1mg/ml) contains 20mM Tris-HCl buffer(pH 8.0), 10% glycerol and 0.4M Urea.		

**Introduction**

CD1E belongs to the CD1 family of transmembrane glycoproteins which are structurally associated to the main MHC (histocompatibility complex) 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 is comprised of 5 CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are believed 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 steady soluble form. The soluble form is necessary for the intracellular processing of some glycolipids into a form that can be presented by other CD1 family members.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CD1E Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 297 amino acids (32-305 a.a) and having a molecular mass of 33.1kDa. CD1E is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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