



Catalog Number: PR27291

Product Type: Recombinant Protein

Source: E. Coli

Amino Acid Sequence: MGSSHHHHHH SGLVPRGSH MGSEEQLSFR MLQTSSFANH SWAHSEGSWG LGDLQTHGWD TVLGTIRFLK PWSHGNSFKQ ELKNLQSLFQ LYFHFSFIQIV QASAGQFQLE YPFEIQILAG CRMNAPQIFL NMAYQGSDFL SFQGISWEPS PGAGIRAQNI CKVLNRYLDI KEILQSLGH TCPRFLAGLM EAGESELKRK VKPEAWLSCG PSPGPGRLQL VCHVSGFYPK PVVWMMWRGE QEQRGTQRGD VLPNADETWY LRATLDVAAG EAAGLSCRVK HSSLGGHDLI IHWGGYS.

Description/Molecular Mass: 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.

Purity: 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.
Greater than 85.0% as determined by:
(a) Analysis by SDS-PAGE.

Format: CD1E protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.

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

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