



Catalog Number: PR27290

Product Type: Recombinant Protein

Source: Sf9, Insect Cells

Amino Acid Sequence: EVPQRLFPLR CLQISSFANS SWTRTDGLAW LGELQTHSWS NDSDTVRSRK PWSQGTFSQD QWETLQHIFR VYRSSFTRDV KEFAKMLRLS YPLELQVSAG CEVHPGNASN NFFHVAFAQGK DILSFQGTSW EPTQEAPLWV NLAIQVLNQQ KWTRETVQWL LNGTCPQFVS GLLESGKSEL KKQVKPKAWL SRGSPSPGPR LLLVCHVSGF YPKPWWVKWM RGEQEQGTQ PGDILPNAE TWYLRATLDV VAGEAAGLSC RVKHSSLEGQ DIVLYWGGSY TSLEHHHHHH.

Description/Molecular Mass: CD1D, also known as antigen-presenting glycoprotein CD1d, is a transmembrane glycoprotein which belongs to the CD1 family of glycolipid antigen-presenting MHC-like molecules. CD1d-presented lipid antigens activate a special class of T cells, familiar as natural killer T (NKT) cells, during the interaction with the T-cell receptor present on NKT membranes. Once activated, NKT cells rapidly produce Th1 & Th2 cytokines, usually represented by interleukin 4 production.

CD1D produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 290 amino acids (20-301 a.a.) and having a molecular mass of 32.9kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa).

CD1D is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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

Format: CD1D protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

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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