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CD1D Human

CD1D Human Recombinant
CDA0020

Product Overview

Name	CD1D Human

Description

CD1D Human Recombinant

Synonyms

Antigen-presenting glycoprotein CD1d, R3G1, CD antigen: CD1d, Differentiation Antigen CD1-Alpha-3, T-Cell Surface Glycoprotein CD1d, Thymocyte Antigen CD1D, CD1A, R3, CD1d Molecule, CD1D Antigen, D Polypeptide, CD1d Antigen, R3G1, HMC Class I, Antigen-Like Glycoprotein CD1D, Antigen-Presenting Glycoprotein CD1d.

Introduction

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.

Source

Sf9, Insect cells.

Physical Appearance

Sterile filtered colorless solution.

Formulation

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

Stability

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.

Purity

Greater than 85.0% as determined by SDS-PAGE.

Amino acid sequence

EVPQRLFPLR CLQISSFANS SWTRTDGLAW LGELQTHSWS NDSDTVRSLK PWSQGTFSDQ QWETLQHIFR VYRSSFTRDV KEFAKMLRLS YPLELQVSAG CEVHPGNASN NFFHVAFQGK DILSFQGTSW EPTQEAPLWV NLAIQVLNQD KWTRETVQWL LNGTCPQFVS GLLESGKSEL KKQVKPKAWL SRGPSPGPGR LLLVCHVSGF

YPKPVWVKWM RGEQEQQGTQ PGDILPNADE TWYLRATLDV VAGEAAGLSC RVKHSSLEGQ DIVLYWGGSY TS LEHHHHHH.

Precautions

CD1D Human is for research use only and not for use in diagnostic or therapeutic procedures.