
Product Data Sheet

Product Name: CD1D Human
 Cat. No.: GP23000
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	EVPQRLFPLR CLQISSFANS SWTRTDGLAW LGELQTHSWS NDSDTVRSK PWSQGTFSQD QWETLQHIFR VYRSSFTRDV KEFAKMLRLS YPLELQVSAG CEVHPGNASN NFFHVAFQ GK DILSFQGT SW EPTQEAPLWV NLAIQVLNQD KWTRETVQWL LNGTCPQFVS GLLESGKSELKKQVKPKAWL SRGPSPGPGR LLLVCHVSGF YPKPVVVKWM RGEQEQQGTQ PGDILPNADE TWYLRATLDV VAGEAAGLSC RVKHSSLEGQ DIVLYWGGSY TSLEHHHHHH.		
Formulation	CD1D protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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.

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%

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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