

Datasheet for ABIN7274279

CD1a Protein (CD1a) (AA 19-300) (His tag)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD1a
Protein Characteristics:	AA 19-300
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD1a protein is labelled with His tag.

Product Details

Purpose:	Human CD1A Protein
Sequence:	Asp19-Val300
Characteristics:	Recombinant Human CD1A Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Asp19-Val300.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	CD1a
Alternative Name:	CD1A (CD1a Products)

Target Details

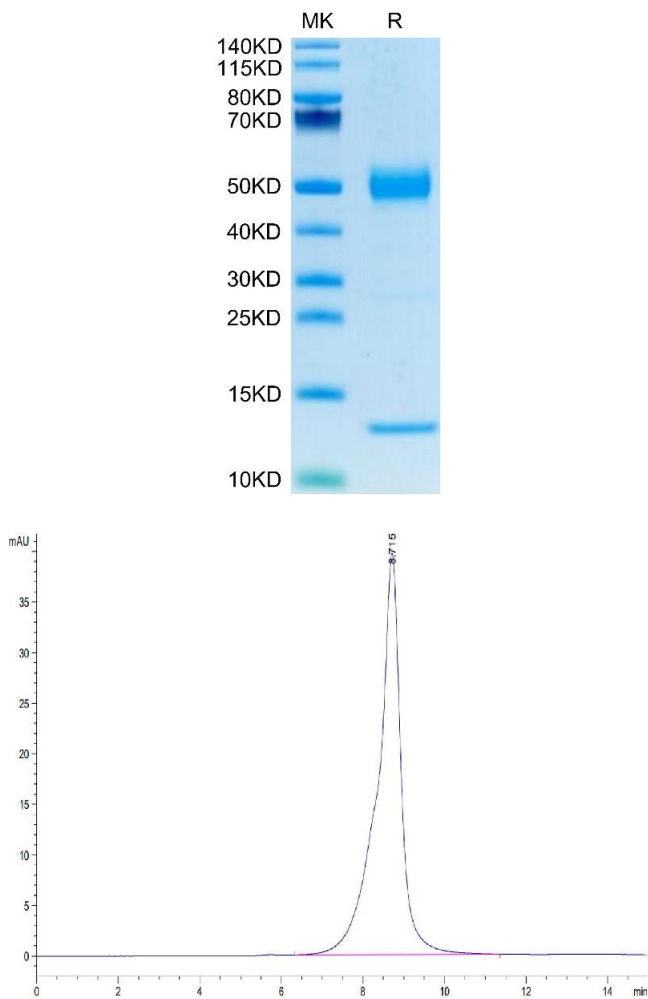
Background:	CD1 proteins are a family of major histocompatibility complex (MHC) class I-like antigen-presenting molecules that present lipids to T cells. The cytoplasmic tails (CTs) of all human CD1 isoforms, with the exception of CD1a, contain tyrosine-based sorting motifs, responsible for the internalization of proteins by the clathrin-mediated pathway. CD1a closer to MHC class I in its trafficking and potential antigen-loading compartments among CD1 isoforms.
Molecular Weight:	33.3 kDa. Due to glycosylation, the protein migrates to 48-53 kDa and 13-14 kDa based on Tris-Bis PAGE result.
NCBI Accession:	NP_001754
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

Image 1. Human CD1A on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human CD1A is greater than 95 % as determined by SEC-HPLC.