Human CD1A Protein

Cat. No. CDA-HM11A

Description

Source	Recombinant Human CD1A Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Asp19-Val300.
Accession	NP_001754.2
Molecular Weight	The protein has a predicted MW of 33.3 kDa. Due to glycosylation, the protein migrates to 48-53 kDa and 13-14 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

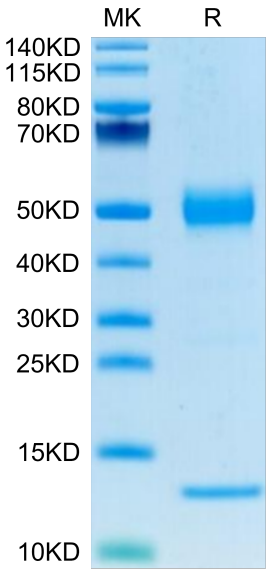
Formulation	Supplied as 0.22μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE



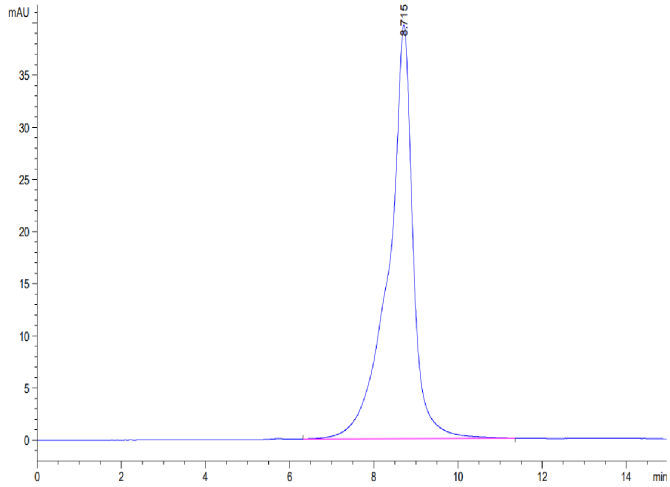
Human CD1A on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Human CD1A Protein

Cat. No. CDA-HM11A

Assay Data



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