

## Recombinant Human CD1D Protein, His-tagged

Cat. No. CD1D-151H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human CD1d molecule(CD1D), transcript variant 1(NM\_001766), with a His tag, was expressed in human cells.

**Species** Human

**Source** Human Cells

**Description** This gene encodes a divergent member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes to late endosomes and lysosomes via a tyrosine-based motif in the cytoplasmic tail. Two transcript variants encoding different isoforms have been found for this gene.

**Form** Purified protein formulated in a sterile solution of TBS buffer, pH7.233, without any preservatives.

**Molecular Mass** 35.5 kDa

**Endotoxin** Endotoxin level is < 0.1 ng/g of protein (<1EU /g)

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**Purity** >90% by SDS-PAGE gel and Coomassie Blue staining

**Applications** Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies.

## GENE INFORMATION

**Gene Name** CD1D CD1d molecule [ [Homo sapiens](#) ]

**Official Symbol** CD1D

**Synonyms**

CD1D; CD1d molecule; CD1d antigen , CD1D antigen, d polypeptide; antigen-presenting glycoprotein CD1d; R3G1; thymocyte antigen CD1D; CD1D antigen, d polypeptide; T-cell surface glycoprotein CD1d; differentiation antigen CD1-alpha-3; HMC class I antigen-like glycoprotein CD1D; R3; CD1A; MGC34622;

**Gene ID** 912

**mRNA Refseq** [NM\\_001766](#)

**Protein Refseq** [NP\\_001757](#)

**MIM** 188410

**UniProt ID** [P15813](#)

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