

Active Recombinant Human CD300 Molecule-Like Family Member F, Fc-tagged

Cat. No. CD300LF-5608H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD300LF protein was expressed in Murine myeloma cell line with the Fc part of human IgG1 Pro100-Lys330 (C-terminus) and Tyr16-Leu155 (N-terminus).
Species	Human
Source	Mammalian Cells
Protein Length	16-155 a.a.
Description	CD300LF, also known as CD300F, IREM-1, CLM-1, IgSF13, DlgR1, and MAIR-V, is a 50-60 kDa glycoprotein member of the immunoglobulin super-family. Human CD300LF consists of a 137 amino acid (aa) extracellular domain (ECD) with one Ig-like V-type domain, a 21 aa transmembrane segment, and a 113 aa cytoplasmic domain that contains multiple immunoreceptor tyrosine-based inhibitory motifs (ITIMs) or ITIM-like sequences.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Tyr16 & Thr20
Molecular Weight	42.4 kDa
Activity	Measured by its ability to stimulate human T cell proliferation. The ED50 for this effect

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	is typically 0.75-4.5 µg/mL. Optimal dilutions should be determined by each laboratory for each application.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	57-62kDa, reducing conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	CD300LF CD300 molecule-like family member f [Homo sapiens]
Official Symbol	CD300LF
Synonyms	CD300LF; CD300 molecule-like family member f; CLM1; NKIR; CLM-1; IREM1; CD300f; IREM-1; IgSF13; CMRF35-like molecule 1; NK inhibitory receptor; inhibitory receptor IREM1; CD300 antigen like family member F; CD300 antigen-like family member F; immunoglobulin superfamily member 13; CD300 molecule like family member f; immunoglobulin superfamily member 13; immune receptor expressed on myeloid cells 1; NKIR; UNQ3105/PRO10111; OTTHUMP00000070875; CD300f antigen
Gene ID	146722

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mRNA Refseq	NM_139018
Protein Refseq	NP_620587
MIM	609807
UniProt ID	Q8TDQ1
Chromosome Location	17q25.2
Function	receptor activity
PDBrendering based on 2nms.	