Active Recombinant Mouse CD300C Protein, N-Fc-tagged

Cat. No. CD300C-13M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CD300C Chimera Protein, fused to Fc-tag at N-terminus, was expressed in CHO.
Species	Mouse
Source	CHO
ProteinLength	His22-Pro187
Description	CMRF-35-like molecule-6 (CLM-6), known as LMIR8, CMRF-35A1, and CD300c, is a type I transmembrane glycoprotein belonging to the immunoregulatory signaling (IRS) family of immunoglobulin-like molecules. There have been 7 human and 9 mouse CD300/CLM family members identified, and they modulate a broad and diverse array of immune cell processes via their paired activating and inhibitory receptor functions. Mouse CD300c consists of an extracellular domain (ECD) with one Ig-like domain, a single transmembrane segment, and a short cytoplasmic tail. The mature ECD of mouse CD300c is 167 amino acids and shares 48% sequence identity with human CD300c. A charged amino acid residue in the transmembrane domain of CD300c/CLM-6, found in additional family members CLM-2, CLM-4, CLM-5, and CLM-7, enables interactions with adapter proteins. CD300c has been shown to be a FcR gamma -coupled receptor that is selectively expressed in Plasmacytoid dendritic cells (pDCs). CD300c signals might negatively regulate the activation of pDCs in response to viral infections. Additional research into CD300 receptor function during viral infections could help develop novel anti-viral therapies.

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Form	Lyophilized from a 0.2 μm filtered solution in PBS.
Bio-activity	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells. The ED50 for this effect is 0.8-4.8 μg/mL.
Molecular Mass	Predicted Molecular Mass: 45 kDa SDS-PAGE: 55-70 kDa, reducing conditions
Endotoxin	<0.10 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Reconstitution	Reconstitute at 500 μg/mL in PBS.

GENE INFORMATION

Gene Name	Cd300c CD300C molecule [Mus musculus (house mouse)]
Official Symbol	CD300C
Synonyms	CD300C; CD300C molecule; Clm6; CD300c antigenCMRF35 antigen; CLM6; CLM-6; CMRF35 leukocyte immunoglobulin-like receptor; CMRF35; CMRF-35; CMRF35A

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	leukocyte immunoglobulin-like receptor; CMRF-35A; CMRF35ACMRF35A1; CMRF35CMRF35-A1; CMRF35-like molecule 6; IGSF16; IgSF16; IGSF16CD300 antigen-like family member C; Immunoglobulin superfamily member 16; LIR
Gene ID	387565
mRNA Refseq	NM_001368239.1
Protein Refseq	NP_001355168.1
UniProt ID	A2A7V7

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