RP01979
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Recombinant Human CMRF35-like molecule 5/CD300LD Protein

Catalog No.: RP01979 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	100131439	Q6UXZ3

Tags
C-hFC

Synonyms
CD300LD; CD300D; CMRF35A4; UNQ9218/PRO28686;CMRF35-like molecule 5; CLM-5; CD300 antigen-like family member D; CMRF35-A4; CD300d

Product Information

Source

Purification
≥ 95 % as determined by SDS-PAGE.

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

CD300d (also known as CD300LD or CMRF35A4) is a member of the CD300 family of transmembrane glycoproteins belonging to the immunoregulatory signaling (IRS) family. CD300d, like most CD300 family members, is found exclusively on myeloid cells, including monocyte and granulocytes . CD300 members contain a V-type immunoglobulin-like domain with an additional pair of cysteine residues in the extracellular domain (ECD), a transmembrane region, and a short cytoplasmic tail . The mature ECD of human CD300d is 146 amino acids (aa) and shares a 48% and 45% identity with mouse and rat CD300d, respectively. CD300d recruits ITAM-bearing Adaptor FceRg. CD300d interacts with all CD300 family members with exception of CD300c, and plays a role in the regulation and/or formation of CD300 complexes on the cell surface and consequently modulate the state of activation of myeloid cells. CD300 family members modulate a broad and diverse array of immune cell processes via their paired activating and inhibitory receptor functions . Mouse CD300d, along with CD300lf, has been identified as a receptor for permissive murine noroviral infection (MNoV) . Further, expression of murine CD300LF on human and other mammalian cell lines confers cross species permissively . Additional research into CD300 family member function during viral infections could help develop novel anti-viral therapies .

Basic Information

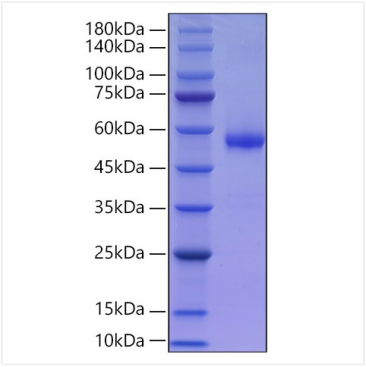
Description
Recombinant Human CMRF35-like molecule 5/CD300LD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala19-His165) of Human CMRF35-like molecule 5/CD300LD (Accession #NP_001108624.1) fused with hFC at the C-terminus.

Bio-Activity

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



Recombinant Human CMRF35-like molecule 5/CD300LD Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.