Recombinant Human CD300a/LMIR1 Protein (Fc Tag)

Catalog Number: PKSH030836

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

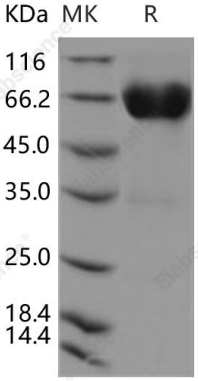
Description

Species	Human
Source	HEK293 Cells-derived Human CD300a/LMIR1 protein Met 1-Gln178, with an C-terminal hFc
Calculated MW	44.5 kDa
Observed MW	58-66 kDa
Accession	Q9UGN4-1
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

CMRF35-like molecule 8; also known as CD300 antigen-like family member A; CMRF35-H9; Immunoglobulin superfamily member 12; Inhibitory receptor protein 60; NK inhibitory receptor; CD300a and CMRF35H; is a single-pass type I membrane protein which belongs to theCD300 family. The CD300 family of myeloid immunoglobulin receptors includes activating (CD300b; CD300e) and inhibitory members (CD300a; CD300f); as well as molecules presenting a negative charge within their transmembrane domain (CD300c; CD300d). CD300A/IGSF12 is expressed not only by natural killer (NK) cells but also by T-cell subsets; B-cells; dendritic cells; mast cells; granulocytes and monocytes. It contains oneIg-like V-type (immunoglobulin-like) domain. CD300A/IGSF12 is an inhibitory receptor which may contribute to the down-regulation of cytolytic activity in natural killer (NK) cells; and to the down-regulation of mast cell degranulation. CD300c is a functional immune receptor able to deliver activating signals upon ligation in RBL-2H3 mast cells. CD300c signaling is partially mediated by a direct association with the immune receptor tyrosin e-based activation motif-bearing adaptor FcεRγ. CD300a and CD300c play an important role in the cross-regulation of TNF-alpha and IFN-alpha secretion from plasmacytoid dendritic cells (pDCs).

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