

## Recombinant Human CD300a/LMIR1 Protein (Fc Tag)

**Catalog Number:** PKSH030836

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

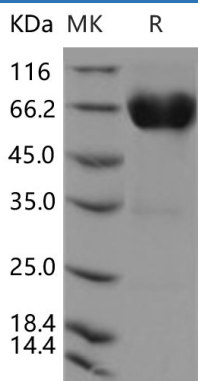
### Description

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

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

#### For Research Use Only

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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 the CD300 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 one Ig-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 tyrosine-based activation motif-bearing adaptor FcεRγ. CD300a and CD300c play an important role in the cross-regulation of TNF-α and IFN-α secretion from plasmacytoid dendritic cells (pDCs).

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