

Recombinant Mouse CD300a/LMIR1 Protein (Fc Tag)

Catalog Number:PKSM041101



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

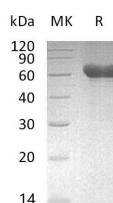
Description

Synonyms	CD300a;CD300a antigen;CMRF35H9;CD300a molecule;leukocyte immunoglobulin-like receptor;CD300 antigen-like family member A;CMRF35-like molecule 8;NK inhibitory receptor;Immunoglobulin superfamily member 12;IRp60;Inhibitory receptor protein 60;CLM8;CMRF-35H;IGSF12;IRC1;IRC2;LMIR1;CLM-8;MAIR-I;CIm8;MAIR-I;MAIR-Ia;mcpir1;MMAC8;Pigr4
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Leu28-Arg183
Accession	Q6SJQ0
Calculated Molecular Weight	44.3 kDa
Observed molecular weight	58-75 kDa
Tag	C-Fc

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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed man
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

LMIR1, also termed CD300a, is a type I transmembrane glycoprotein with a single IgV-like extracellular domain and an extended membrane proximal region that links the immunoglobulin (Ig) and transmembrane domains and belongs to the immunoglobulin superfamily. The intracellular domain of LMIR1 contains several immunoreceptor tyrosine-based inhibition motifs (ITIMs). When cross-linked, it will be tyrosine phosphorylated and capable of recruiting tyrosine

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phosphatases (SHP-1, SHP-2) and inositol polyphosphate 5-phosphatase, SHIP. LMIR1 will regulate mast cell-mediated inflammatory responses. LMIR1 is broadly expressed on myeloid and lymphoid cells, and its expression is differentially regulated depending on the cell type.

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