Recombinant Human CLEC4M Protein, hIgG/His-tagged

Cat. No. CLEC4M-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CD299 (570aa), fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	72-399
Description	This gene encodes a C-type lectin that functions in cell adhesion and pathogen recognition. This receptor recognizes a wide range of evolutionarily divergent pathogens with a large impact on public health, including tuberculosis mycobacteria, and viruses including Ebola, hepatitis C, HIV-1, influenza A, West Nile virus and the SARS-CoV acute respiratory syndrome coronavirus. The protein is organized into four distinct domains: a C-terminal carbohydrate recognition domain, a flexible tandem-repeat neck domain of variable length, a transmembrane region and an N-terminal cytoplasmic domain involved in internalization. This gene is closely related in terms of both sequence and function to a neighboring gene, CD209 (Gene ID: 30835), also known as DC-SIGN. The two genes differ in viral recognition and expression patterns, with this gene showing high expression in endothelial cells of the liver, lymph node and placenta. Polymorphisms in the tandem repeat neck domain are associated with resistance to SARS infection.

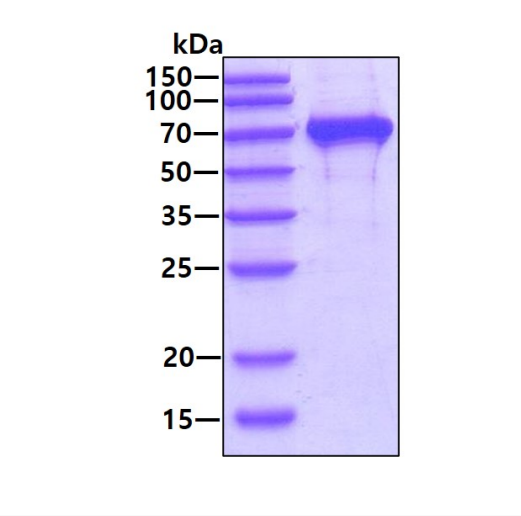
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Form	Liquid
Molecular Mass	64.8 kDa
AA Sequence	VSKVPSSLSQEQSEQDAIYQNLTQLKAAVGELSEKSKLQEIYQELTQLKAAVGELPE KSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTR LKAAVGELPEKSKLQEIYQELTELKAAVGELPEKSKLQEIYQELTQLKAAVGELPDQS KQQQIYQELTDLKTAFERLCRHCPKDWTFFQGNCYFMSNSQRNWHDSVTACQEVR AQLVVIKTAEEQNFLQLQTSRSNRFSWMGLSDLNQEGTWQWVDGSPLSPSFQRY WNSGEPNNSGNEDCAEFSGSGWNDNRCDVDNYWICKKPAACFRDE
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	>95% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 2 to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	CLEC4M C-type lectin domain family 4 member M [Homo sapiens (human)]
Official Symbol	CLEC4M
Synonyms	CLEC4M; C-type lectin domain family 4 member M; CD299; LSIGN; CD209L; L-

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	SIGN; DCSIGNR; HP10347; DC-SIGN2; DC-SIGNR; C-type lectin domain family 4 member M; CD209 antigen-like protein 1; CD299 antigen; DC-SIGN-related protein; dendritic cell-specific ICAM-3-grabbing non-integrin 2; liver/lymph node-specific ICAM-3 grabbing non-integrin; mannose binding C-type lectin DC-SIGNR
Gene ID	10332
mRNA Refseq	NM_014257
Protein Refseq	NP_055072
MIM	605872
UniProt ID	Q9H2X3
SDS-Page	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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