

Recombinant Human CD209 Protein, hlgG/His-tagged

Cat. No. CD209-03H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human DC-SIGN/CD209 (60-404 aa), fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Species Human

Source Insect Cells

ProteinLength 587

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 leprosy and tuberculosis mycobacteria, the Ebola, hepatitis C, HIV-1 and Dengue viruses, 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, 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, CLEC4M (Gene ID: 10332), also known as L-SIGN. The two genes differ in viral recognition and expression patterns, with this gene showing high expression on the surface of dendritic cells. Polymorphisms in the neck region are associated with protection from HIV-1 infection, while single nucleotide polymorphisms in the promoter of this gene are associated with differing resistance and susceptibility to and severity of infectious disease, including rs4804803, which is

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	associated with SARS severity.
Form	Liquid
Molecular Mass	66.5 kDa
AA Sequence	VSKVPSSISQEQSRQDAIYQNLTLKAAVGESEKSKLQEIYQELTQLKAAVGEPEK SKLQEIYQELTRLKAAVGEPEKSKLQEIYQELTWLKAAVGEPEKSKMQEIYQELTR LKAAVGEPEKSKQQEIYQELTRLKAAVGEPEKSKQQEIYQELTRLKAAVGEPEK SKQQEIYQELTQLKAAVERLCHPCPWEWTFQNGCYFMSNSQRNWHDSITACKEV GAQLVVIKSAEEQNFLQLQSSRSNRFTWMGLSDLNQEQTWQWVDGSPLLPSFKQY WNRGEPNNVGEEDCAEFGNGWDDKCNLAKFWICKKSAASCSRDEEQFLSPAP ATPNPPPA
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% 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	0.25 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
GENE INFORMATION	
Gene Name	CD209 CD209 molecule [Homo sapiens (human)]

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Official Symbol	CD209
Synonyms	CD209; CD209 molecule; CDSIGN; CLEC4L; DC-SIGN; DC-SIGN1; hDC-SIGN; CD209 antigen; C-type lectin domain family 4 member L; HIV gp120-binding protein; dendritic cell-specific ICAM-3-grabbing non-integrin 1; dendritic cell-specific intercellular adhesion molecule-3-grabbing non-integrin; dendritic cell-specific intracellular adhesion molecules (ICAM)-3 grabbing non-integrin
Gene ID	30835
mRNA Refseq	NM_021155
Protein Refseq	NP_066978
MIM	604672
UniProt ID	Q9NNX6
SDS-PAGE	 <p>3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.</p>

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