

Recombinant Human CD209 Protein, C-His-tagged

Cat. No. CD209-057H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD209 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	DC-SIGN (CD209, CLEC4L) is a C-type lectin receptor expressed by dendritic cells (DCs). The DC-SIGN transcript can undergo several splicing events to generate at least thirteen different transmembrane and soluble isoforms. DC-SIGN responds to a broad range of pathogens due to its ability to recognize both mannose and fructose carbohydrates, and is well studied for its role in HIV infection. Recognition of the HIV envelope glycoprotein gp120 by DC-SIGN leads to internalization of HIV by DCs and facilitates transmission of the virus to CD4+ T cells. DC-SIGN also mediates adhesion to T cells through interaction with ICAM-3, as well as transmigration across the endothelium by binding to ICAM-2. The DC-SIGN receptor can modulate TLR signaling by activating the kinase Raf-1. The closely related molecule DC-SIGNR (L-SIGN, CLEC4M) is 77% homologous to DC-SIGN and likely arose through a gene duplication event. Like DC-SIGN, DC-SIGNR binds mannose carbohydrates on the surface of pathogens. However, the expression patterns of the two receptors differ, as DC-SIGNR expression is restricted to endothelial cells of the liver, lymph node, and placenta. Murine cells contain a set of related molecules, SIGNR1-SIGNR8. Based on sequence analysis, there is no clear murine ortholog to human DC-SIGN, however SIGNR3 is the most functionally similar due to its ability to recognize both mannose and fructose structures.

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Molecular Mass	~38 kDa
AA Sequence	QVSKVPSSISQEQSRQDAIYQNLTLKAAVGELSEKSKLQEIQELTLKAAVGELP EKS KLQEIQELTRLKAAVGELPEKSKLQEIQELTWLKAAVGELPEKSKMQEIQEL TRLKAAVGELPEKSKQEQEIQELTRLKAAVGELPEKSKQEQEIQELTRLKAAVGELP EKS KQEQEIQELTLKAAVERLCHPCPWEWTFQGNCFMSNSQRNWHDSITACK EVGAQLVVIKSAEEQNFLQLQSSRSNRFTWMGLSDLNQE GTWQWVDGSPLLPSFK QYWNRGEPNNVGEEDCAEFSGNGWNDDKCNLAKFWICKKSAASCSRDEEQFLSP APATPNPPPA
Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Concentration	≥0.5 mg/mL
Storage Buffer	PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name	CD209 CD209 molecule [Homo sapiens (human)]
Official Symbol	CD209
Synonyms	CD209; CD209 molecule; CD209 antigen; CDSIGN; CLEC4L; DC SIGN; DC SIGN1; HIV gpl20-binding protein; C-type lectin domain family 4 member L; C-type lectin domain family 4, member L; dendritic cell-specific ICAM-3-grabbing non-integrin 1;

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dendritic cell-specific intracellular adhesion molecules (ICAM)-3 grabbing non-integrin; DC-SIGN; DC-SIGN1; MGC129965;

Gene ID 30835

mRNA Refseq NM_001144893

Protein Refseq NP_001138365

MIM 604672

UniProt ID Q9NNX6

SDS-PAGE

