

Active Recombinant Human CD209 protein

Cat. No. CD209-635H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD209(Gln59-Ala404) fused with YPYDVPDYA at N-terminal was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	Gln59-Ala404
Description	Human Dendritic Cell-specific ICAM-3 Grabbing Non-integrin (DC-SIGN)/CD209 is a member of the C-type lectin family. The canonical DC-SIGN/CD209 isoform is a 46 kDa, 404 amino acid (aa) type II transmembrane protein. The extracellular region contains a Ca²⁺-dependent carbohydrate-binding lectin domain. Multiple human DC-SIGN/CD209 splice forms exist, generating both membrane-bound and soluble forms. DC-SIGN/CD209 is not well conserved between mouse and human, with the extracellular domain sharing only 63% aa identity. The DC-SIGN/CD209 lectin domain binds mannose oligosaccharides on pathogens including HIV as well as self glycoproteins including ICAMs. DC-SIGN/CD209 binds to butyrophilin 2A1 and this interaction can be blocked by HIV pp120. DC-SIGN/CD209 is expressed on dendritic cells (DC) and inflammatory macrophages and contributes to antigen presentation.
Predicted N Terminal	Tyr
Form	Lyophilized from a 0.2 µm filtered solution in PBS.

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Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of ICAM-3 expressing CHO Chinese hamster ovary cells. The ED50 for this effect is typically 0.4-2 µg/mL.
Molecular Mass	Predicted Molecular Mass: 41 kDa; SDS-PAGE: 41-48 kDa, reducing conditions.
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 250 µg/mL in PBS.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	CD209 CD209 molecule [Homo sapiens]
Official Symbol	CD209
Synonyms	CD209; CD209 molecule; CD209 antigen; CDSIGN; CLEC4L; DC SIGN; DC SIGN1; HIV gp120-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
Chromosome Location	19p13
Pathway	Measles, organism-specific biosystem; Measles, conserved biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem;
Function	mannose binding; metal ion binding; peptide antigen binding; receptor activity; sugar binding; virion binding;