

Bioactive

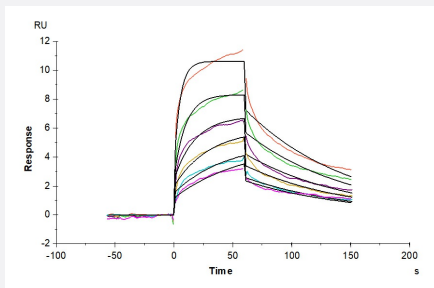
HuPro®

## CD209 (Human) Recombinant Protein

Catalog # P9944

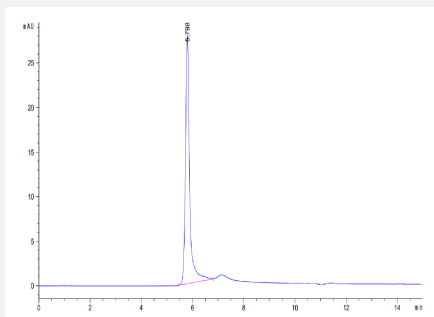
Size 100 ug

### Applications



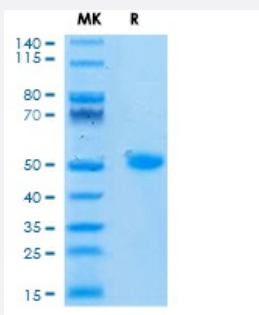
#### Surface Plasmon Resonance

The affinity constant of 0.12  $\mu$ M as determined in SPR assay (Biacore T200).



#### SEC-HPLC

The purity of Human CD209 is greater than 95% as determined by SEC-HPLC.



#### Tris-Bis PAGE

Human CD209 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### Specification

#### Product Description

Human CD209 (Q9NNX6-1, Gln59-Ala404) partial recombinant protein with His tag at N-Terminus expressed in HEK293 cells.

|                         |                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sequence                | Gln59-Ala404                                                                                                                                                                                                                 |
| Host                    | Human                                                                                                                                                                                                                        |
| Theoretical MW (kDa)    | 40.5                                                                                                                                                                                                                         |
| Form                    | Lyophilized                                                                                                                                                                                                                  |
| Preparation Method      | Mammalian cell (HEK293) expression system                                                                                                                                                                                    |
| Purity                  | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC                                                                                                                                                            |
| Endotoxin Level         | < 1 EU per 1 ug of protein (determined by LAL method)                                                                                                                                                                        |
| Activity                | The affinity constant of 0.12 uM as determined in SPR assay (Biacore T200).                                                                                                                                                  |
| Quality Control Testing | SEC-HPLC and Tris-Bis PAGE<br>SEC-HPLC<br>The purity of Human CD209 is greater than 95% as determined by SEC-HPLC.<br>Tris-Bis PAGE<br>Human CD209 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%. |
| Recommend Usage         | Biological Activity<br>SDS-PAGE<br>SPR<br>The optimal working dilution should be determined by the end user.                                                                                                                 |
| Storage Buffer          | Lyophilized from sterile distilled Water is > 100 ug/mL                                                                                                                                                                      |
| Storage Instruction     | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                               |
| Note                    | Result of bioactivity analysis                                                                                                                                                                                               |

## Applications

- Functional Study

- SDS-PAGE

- Surface Plasmon Resonance

The affinity constant of 0.12 uM as determined in SPR assay (Biacore T200).

## Gene Info — CD209

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">30835</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Protein Accession# | <a href="#">Q9NNX6-1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Name          | CD209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Alias         | CDSIGN, CLEC4L, DC-SIGN, DC-SIGN1, MGC129965                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Description   | CD209 molecule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Omim ID            | <a href="#">604672</a> <a href="#">607948</a> <a href="#">609423</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Summary       | <p>This gene encodes a transmembrane receptor and is often referred to as DC-SIGN because of its expression on the surface of dendritic cells and macrophages. The encoded protein is involved in the innate immune system and recognizes numerous evolutionarily divergent pathogens ranging from parasites to viruses with a large impact on public health. The protein is organized into three distinct domains: an N-terminal transmembrane domain, a tandem-repeat neck domain and C-type lectin carbohydrate recognition domain. The extracellular region consisting of the C-type lectin and neck domains has a dual function as a pathogen recognition receptor and a cell adhesion receptor by binding carbohydrate ligands on the surface of microbes and endogenous cells. The neck region is important for homo-oligomerization which allows the receptor to bind multivalent ligands with high avidity. Variations in the number of 23 amino acid repeats in the neck domain of this protein are rare but have a significant impact on ligand binding ability. This gene is closely related in terms of both sequence and function to a neighboring gene (GeneID 10332; often referred to as L-SIGN). DC-SIGN and L-SIGN differ in their ligand-binding properties and distribution. Alternative splicing results in multiple variants</p> |
| Other Designations | C-type lectin domain family 4, member L CD209 antigen Dendritic cell-specific intracellular adhesion molecules (ICAM)-3 grabbing non-integrin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Disease

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