# Recombinant Human DC-SIGNR/CD299/CLEC4M Protein (Fc Tag)

**Catalog No.** PKSH031526

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

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|---|---|
| **Synonyms** | CD209L;CD299;CLEC4M;DC-SIGN2;DC-SIGNR;DCSIGNR;HP10347;L-SIGN;LSIGN;MGC129964;MGC47866 |
| **Species** | Human |
| **Expression Host** | HEK293 Cells |
| **Sequence** | Ser 78-Glu 399 |
| **Accession** | NP_055072.3 |
| **Calculated Molecular Weight** | 65.0 kDa |
| **Observed molecular weight** | 110-140 kDa & 65-70 kDa |
| **Tag** | N-hFc |
| **Bioactivity** | Not validated for activity |

## Properties

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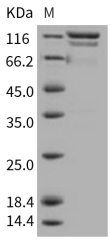
|---|---|
| **Purity** | > 90 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 90 % as determined by reducing SDS-PAGE.

## Background

C-type lectin domain family 4, member M, also known as DC-SIGNR and CLEC4M, is a type II integral membrane



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protein that is 77% amino acid identical to DC-SIGN, an HIV gp120-binding protein. Though the encoded gene located in the same chromosome, DC-SIGN is expressed solely on dendritic cells, while DC-SIGNR is predominantly found in liver sinusoidal endothelial cells and lymph node, as well as placental endothelium. DC-SIGNR exists as a homotetramer, and the tandem repeat domain, also called neck domain, mediates oligermerization. DC-SIGNR is ragarded as a pathogen-recognition receptor involved in peripheral immune surveillance in liver, and probably mediate the endocytosis of pathogens which are subsequently degraded in lysosomal compartments. DC-SIGNR appears to selectively recognize and bind many viral surface glycoproteins containing high mannose N-linked oligosaccharides in a calcium-dependent manner, including HIV-1 gp120, HIV-2 gp120, SIV gp120, ebolavirus glycoproteins, HCV E2, and human SARS coronavirus protein S, as well as the cellular adhesion protein ICAM3. DC-SIGNR have been thought to play an important role in establishing HIV infection by enhancing trans-infection of CD4(+)T cells in the regional lymph nodes. It may affect susceptibility to HIV infection by a mechanism that is different in females and males. DC-SIGNR can bind to hepatitis C virus (HCV), and its polymorphism might affect HCV loads supporting the concept that DC-SIGNR contributes to HCV replication efficacy.



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