

Recombinant Human DC-SIGNR/CD299 (N-8His-Flag)

Catalog No. PKSH033990

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

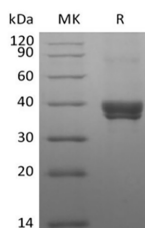
Description

Synonyms	CD209L;CD209L1;CD299;CLEC4M;C-type lectin domain family 4;member M;DC-SIGN2;DCSIGNR;DC-SIGNR;HP10347;LSIGN;L-SIGN;C-type Lectin Domain Family 4 Member M
Species	Human
Expression Host	HEK293 Cells
Sequence	Ser73-Glu376
Accession	Q9H2X3-8
Calculated Molecular Weight	37.0 kDa
Observed molecular weight	35-40 kDa
Tag	N-His-Flag
Bioactivity	Not validated for activity

Properties

Purity	> 95 % 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°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

CD299 is also known as DC-SIGNR and CLEC4M, is a type II integral membrane protein. DC-SIGNR exists as a homotetramer, and the tandem repeat domain, also called neck domain, mediates oligomerization. Multiple human DC-SIGN/CD209 splice forms exist, generating both membrane-bound and soluble forms. DC-SIGNR is regarded 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 gp12, HIV-2 gp12, SIV gp12, ebolavirus glycoproteins, HCV E2, and human SARS coronavirus protein S, as well as the cellular adhesion protein ICAM3. DC-SIGN/CD209 is expressed on dendritic cells (DC) and inflammatory macrophages and contributes to antigen presentation.