

CD299 Protein, Human, Recombinant

General Information

Synonyms:	HP10347;CLEC4M;DCSIGNR;MGC47866;L-SIGN;C-type lectin domain family 4 member M;LSIGN;DC-SIGNR;DC-SIGN2;MGC129964;CD209L;CD299
Protein Construction:	Gln71-Glu399
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9H2X3-1
Molecular Weight:	37.72 kDa (Predicted); 38-50 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CLEC4M, also known as DC-SIGNR, L-SIGN or CD209L, is a Ca²⁺-dependent C-type lectin. CLEC4M and its homologue DC-SIGN are encoded by the closely related lectin gene cluster on chromosome 19p13.3. Higher expression of CLEC4M is associated with poor clinical prognosis in lung cancer patients and enhances the resistance of NSCLC cells to cisplatin. Inhibition of CLEC4M expression significantly increased cisplatin sensitivity, suggesting potential clinical significance for targeting CLEC4M in overcoming cisplatin resistance.

Reference

Nattermann J,et al.(2006) The tandem-repeat polymorphism of the DC-SIGNR gene in HCV infection. J Viral Hepat. 13(1): 42-6.

Wichukchinda N,et al.(2007) The polymorphisms in DC-SIGNR affect susceptibility to HIV type 1 infection. AIDS Res Hum Retroviruses. 23(5): 686-92.

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