

**Synonym**

DC-SIGN, CD209, DC-SIGN1, CLEC4L

Source

Human CD209, His Tag(CD9-H5246) is expressed from human 293 cells (HEK293). It contains AA Gln 59 - Ala 404 (Accession # [Q9NNX6-1](#)).

Predicted N-terminus: His

Molecular Characterization

Poly-his	CD209(Gln 59 - Ala 404)
	Q9NNX6-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 41.3 kDa. The protein migrates as 40-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

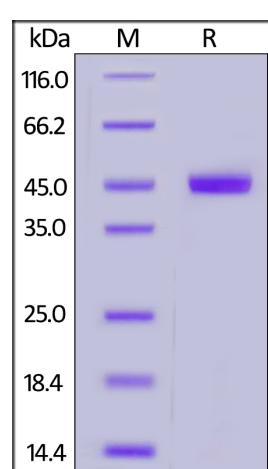
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

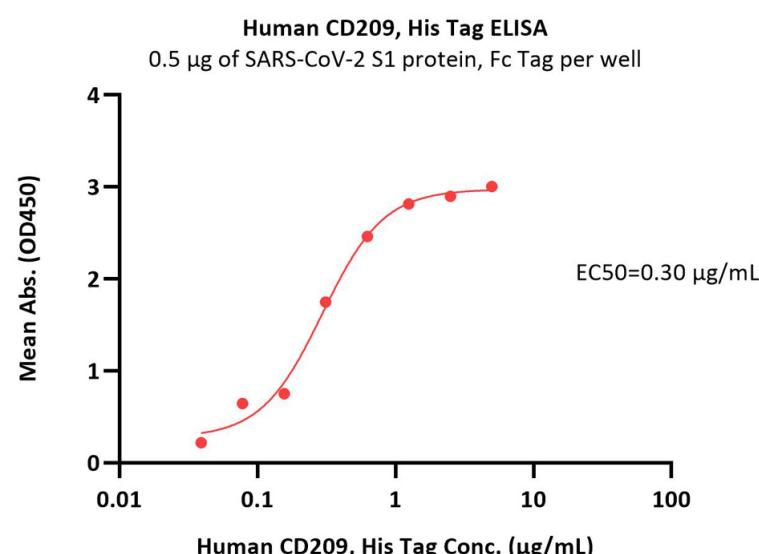
Human CD209, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

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Immobilized SARS-CoV-2 S1 protein, Fc Tag (Cat. No. S1N-C5255) at 5 µg/mL (100 µL/well) can bind Human CD209, His Tag (Cat. No. CD9-H5246) with a linear range of 0.039-0.625 µg/mL (QC tested).

Background

CD209 is also known as CLEC4L, DC-SIGN and CD209 antigen. Pathogen-recognition receptor expressed on the surface of immature dendritic cells (DCs) and involved in initiation of primary immune response. On DCs it is a high affinity receptor for ICAM2 and ICAM3 by binding to mannose-like carbohydrates. May act as a DC rolling receptor that mediates transendothelial migration of DC precursors from blood to tissues by binding endothelial ICAM2. Seems to regulate DC-induced T-cell proliferation by binding to ICAM3 on T-cells in the immunological synapse formed between DC and T-cells.

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