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Datasheet for ABIN7553025

**DC-SIGN/CD209 Protein (AA 1-404) (His tag)**

## Overview

Quantity:	1 mg
Target:	DC-SIGN/CD209 (CD209)
Protein Characteristics:	AA 1-404
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DC-SIGN/CD209 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CD209 Protein expressed in mammalian cells.
Sequence:	<p>MSDSKEPRLQ QLGLLEEEQL RGLGFRQTRG YKSLAGCLGH GPLVLQLLSF TLLAGLLVQV SKVPSSISQE QSRQDAIYQN LTQLKAAVGE LSEKSKLQEI YQELTQLKAA VGELPEKSKL QEIQELTRL KAAVGELPEK SKLQEIYQEL TWLKAAVGEL PEKSKMQEIY QELTRLKAAV GELPEKSKQQ EIQELTRLK AAVGELPEKS KQQEIYQELT RLKAAVGELP EKSKQQEIYQ ELTQLKAAVE RLCHPCPWEW TFFQGNCYFM SNSQRNWHDS ITACKEVGAQ LVVIKSAEEQ NFLQLQSSRS NRFTWMGLSD LNQEGTWQWV DGSPLLPSFK QYWNRGEPNN VGEEDCAEFS GNGWNDDKCN LAKFWICKKS AASCSRDEEQ FLSPAPATPN PPPA <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

DC-SIGN/CD209 (CD209)

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### Alternative Name:

CD209 ([CD209 Products](#))

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### Background:

CD209 antigen (C-type lectin domain family 4 member L) (Dendritic cell-specific ICAM-3-grabbing non-integrin 1) (DC-SIGN) (DC-SIGN1) (CD antigen CD209),FUNCTION: Pathogen-recognition receptor expressed on the surface of immature dendritic cells (DCs) and involved in initiation of primary immune response. Thought to mediate the endocytosis of pathogens which are subsequently degraded in lysosomal compartments. The receptor returns to the cell membrane surface and the pathogen-derived antigens are presented to resting T-cells via MHC class II proteins to initiate the adaptive immune response. {ECO:0000269|PubMed:11859097},, FUNCTION: 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 presursors 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. {ECO:0000269|PubMed:10721995, ECO:0000269|PubMed:11017109, ECO:0000269|PubMed:12574325},, FUNCTION: (Microbial

## Target Details

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infection) Acts as an attachment receptor for HIV-1 and HIV-2. {ECO:0000269|PubMed:11799126, ECO:0000269|PubMed:12502850, ECO:0000269|PubMed:1518869}, FUNCTION: (Microbial infection) Acts as an attachment receptor for Ebolavirus. {ECO:0000269|PubMed:12502850, ECO:0000269|PubMed:12504546}, FUNCTION: (Microbial infection) Acts as an attachment receptor for Cytomegalovirus. {ECO:0000269|PubMed:12433371, ECO:0000269|PubMed:22496863}, FUNCTION: (Microbial infection) Acts as an attachment receptor for HCV. {ECO:0000269|PubMed:15371595, ECO:0000269|PubMed:16816373}, FUNCTION: (Microbial infection) Acts as an attachment receptor for Dengue virus. {ECO:0000269|PubMed:12682107}, FUNCTION: (Microbial infection) Acts as an attachment receptor for Measles virus. {ECO:0000269|PubMed:16537615}, FUNCTION: (Microbial infection) Acts as an attachment receptor for Herpes simplex virus 1. {ECO:0000269|PubMed:18796707}, FUNCTION: (Microbial infection) Acts as an attachment receptor for Influenzavirus A. {ECO:0000269|PubMed:21191006}, FUNCTION: (Microbial infection) Acts as an attachment receptor for SARS-CoV. {ECO:0000269|PubMed:15140961}, FUNCTION: (Microbial infection) Acts as an attachment receptor for Japanese encephalitis virus. {ECO:0000269|PubMed:24623090}, FUNCTION: (Microbial infection) Acts as an attachment receptor for Lassa virus (PubMed:23966408). Acts as an attachment receptor for Marburg virusn. {ECO:0000269|PubMed:15479853}, FUNCTION: (Microbial infection) Acts as an attachment receptor for Respiratory syncytial virus. {ECO:0000269|PubMed:22090124}, FUNCTION: (Microbial infection) Acts as an attachment receptor for Rift valley fever virus and uukuniemi virus. {ECO:0000269|PubMed:21767814}, FUNCTION: (Microbial infection) Acts as an attachment receptor for West-nile virus. {ECO:0000269|PubMed:16415006}, FUNCTION: (Microbial infection) Probably recognizes in a calcium-dependent manner high mannose N-linked oligosaccharides in a variety of bacterial pathogen antigens, including Leishmania pifanoi LPG, Lewis-x antigen in Helicobacter pylori LPS, mannose in Klebsiella pneumoniae LPS, di-mannose and tri-mannose in Mycobacterium tuberculosis ManLAM and Lewis-x antigen in Schistosoma mansoni SEA (PubMed:16379498). Recognition of M.tuberculosis by dendritic cells occurs partially via this molecule (PubMed:16092920, PubMed:21203928). {ECO:0000269|PubMed:16092920, ECO:0000269|PubMed:16379498, ECO:0000269|PubMed:21203928}.

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Molecular Weight: 45.8 kDa

UniProt: [Q9NNX6](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for

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## Application Details

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functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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