

Datasheet for ABIN3090795

**DC-SIGN/CD209 Protein (AA 59-404) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	DC-SIGN/CD209 (CD209)
Protein Characteristics:	AA 59-404
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DC-SIGN/CD209 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

## Product Details

Sequence: QVSKVPSSIS QEQRQDAIY QNLTQLKAAV GELSEKSLQ EIYQELTQLK AAVGELPEKS  
KLQEIQELT RLKAAVGELP EKSKLQEIQ ELTWLKA AVG ELPEKSKMQE IYQELTRLKA  
AVGELPEKSK QQEIYQELTR LKAAVGELPE KSKQQEIYQE LTRLKAAVGE LPEKSKQEI  
YQELTQLKAA VERLCHPCPW EWTFQGN CY FMSNSQRNWH DSITACKEVG AQLVVIKSAE  
EQNFLQLQSS RSNRFTWMGL SDLNQEGTWQ WVDGSPLLPS FKQYWNRGEP NNVGEEDCAE  
FSGNGWNDCK CNLAKFWICK KSAASCSRDE EQFLSPAPAT PNPPPA

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - Human CD209 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
  - State-of-the-art algorithm used for plasmid design (Gene synthesis).

## Product Details

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

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
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Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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Sterility:	0.22 µm filtered
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Endotoxin Level:	Protein is endotoxin free.
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Grade:	Crystallography grade
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## Target Details

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Target:	DC-SIGN/CD209 (CD209)
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Alternative Name:	CD209 ( <a href="#">CD209 Products</a> )
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Background:	Pathogen-recognition receptor expressed on the surface of immature dendritic cells (DCs) and
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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}., 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}., (Microbial infection) Acts as an attachment receptor for HIV-1 and HIV-2 (PubMed:11799126, PubMed:12502850, PubMed:1518869). Acts as an attachment receptor for ebolavirus (PubMed:12502850, PubMed:12504546). Acts as an attachment receptor for cytomegalovirus (PubMed:12433371, PubMed:22496863). Acts as an attachment receptor for HCV (PubMed:15371595, PubMed:16816373). Acts as an attachment receptor for dengue virus (PubMed:12682107). Acts as an attachment receptor for measles virus (PubMed:16537615). Acts as an attachment receptor for herpes simplex virus 1 (PubMed:18796707). Acts as an attachment receptor for Influenzavirus A (PubMed:21191006). Acts as an attachment receptor for SARS coronavirus (PubMed:15140961). Acts as an attachment receptor for Japanese encephalitis virus (PubMed:24623090). Acts as an attachment receptor for Lassa virus (PubMed:23966408). Acts as an attachment receptor for marburg virusn (PubMed:15479853). Acts as an attachment receptor for Respiratory syncytial virus (PubMed:22090124). Acts as an attachment receptor for Rift valley fever virus and uukuniemi virus (PubMed:21767814). Acts as an attachment receptor for west-nile virus (PubMed:16415006). 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). {ECO:0000269|PubMed:11799126, ECO:0000269|PubMed:12433371, ECO:0000269|PubMed:12502850, ECO:0000269|PubMed:12504546, ECO:0000269|PubMed:12682107, ECO:0000269|PubMed:15140961, ECO:0000269|PubMed:1518869, ECO:0000269|PubMed:15371595, ECO:0000269|PubMed:15479853, ECO:0000269|PubMed:16379498, ECO:0000269|PubMed:16415006, ECO:0000269|PubMed:16537615, ECO:0000269|PubMed:16816373, ECO:0000269|PubMed:18796707, ECO:0000269|PubMed:21191006, ECO:0000269|PubMed:21767814,

## Target Details

ECO:0000269|PubMed:22090124, ECO:0000269|PubMed:22496863,  
ECO:0000269|PubMed:23966408, ECO:0000269|PubMed:24623090}.

Molecular Weight: 40.4 kDa Including tag.

UniProt: [Q9NNX6](#)

## Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process