

## CD299 Protein, Human (HEK293, hFc)

<b>Cat. No.:</b>	HY-P76219A
<b>Synonyms:</b>	C-type lectin domain family 4 member M; DC-SIGNR; DC-SIGN2; L-SIGN; CD299; CLEC4M; CD209L
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9H2X3-1/NP_055072.3 (S78-E399)
<b>Gene ID:</b>	10332
<b>Molecular Weight:</b>	Approximately 65-77 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> S L S Q E Q S E Q D   A I Y Q N L T Q L K   A A V G E L S E K S   K L Q E I Y Q E L T Q L K A A V G E L P   E K S K L Q E I Y Q   E L T R L K A A V G   E L P E K S K L Q E I Y Q E L T R L K A   A V G E L P E K S K   L Q E I Y Q E L T R   L K A A V G E L P E K S K L Q E I Y Q E   L T E L K A A V G E   L P E K S K L Q E I   Y Q E L T Q L K A A V G E L P D Q S K Q   Q Q I Y Q E L T D L   K T A F E R L C R H   C P K D W T F F Q G N C Y F M S N S Q R   N W H D S V T A C Q   E V R A Q L V V I K   T A E E Q N F L Q L Q T S R S N R F S W   M G L S D L N Q E G   T W Q W V D G S P L   S P S F Q R Y W N S G E P N N S G N E D   C A E F S G S G W N   D N R C D V D N Y W   I C K K P A A C F R D E           </pre>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. When Recombinant ICAM-3 Protein HY-P72921 is immobilized at 2 µg/mL (100 µL/well), can bind Recombinant Human CD299 Protein. The ED <sub>50</sub> for this effect is 1.304 µg/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

CD299, a gene encoding a C-type lectin, plays crucial roles in cell adhesion and pathogen recognition. This receptor has broad specificity, recognizing a diverse array of pathogens with significant public health implications, including tuberculosis mycobacteria, Ebola, hepatitis C, HIV-1, influenza A, West Nile virus, and the SARS-CoV acute respiratory syndrome coronavirus. The protein structure comprises four distinct domains: a C-terminal carbohydrate recognition domain, a variable-length flexible tandem-repeat neck domain, a transmembrane region, and an N-terminal cytoplasmic domain involved in internalization. CD299 shares close sequence and functional similarities with its neighboring gene, CD209 (also known as DC-SIGN), though they differ in viral recognition and expression patterns. CD299 exhibits high expression in endothelial cells of the liver, lymph nodes, and placenta. Notably, polymorphisms in the tandem repeat neck domain are associated with resistance to SARS infection. With biased expression observed in tissues such as the liver (RPKM 15.4) and lymph nodes (RPKM 9.8), CD299 emerges as a critical player in immune response and pathogen defense.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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