Recombinant human CD299/CLEC4M protein

Catalog Number: ATGP3998

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
72-399aa

UniProt No.
Q9H2X3

NCBI Accession No.
NP_055072

Alternative Names
C-type lectin domain family 4 member M, CD209 antigen-like protein 1, DC-SIGN-related protein, DC-SIGNR, Dendritic cell-specific ICAM-3-grabbing non-integrin 2, DC-SIGN2, Liver/lymph node-specific ICAM-3-grabbing non-integrin, L-SIGN, CD209L, CD209L1

PRODUCT SPECIFICATION

Molecular Weight
64.8kDa (570aa)

Concentration
0.5mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS - PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
hIgG-His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
CD299, as known as DC-SIGNR and CLEC4M, is a type II integral membrane protein that is 77% amino acid identical to CD209/DC-SIGN, an HIV gp120-binding protein. This protein is probable pathogen-recognition

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receptor involved in peripheral immune surveillance in liver. It may mediate the endocytosis of pathogens which are subsequently degraded in lysosomal compartments. CD299 is a receptor for ICAM3, binding to mannose-like carbohydrates. It also recognizes a wide range of evolutionarily divergent pathogens with a large impact on public health, including tuberculosis mycobacteria, and viruses including Ebola, hepatitis C, HIV-1, influenza A, West Nile virus and the SARS-CoV acute respiratory syndrome coronavirus. Recombinant human CD299, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

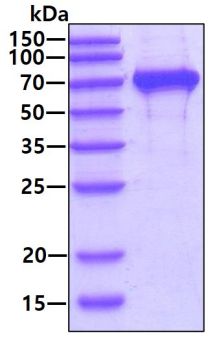
<ADP>VSKVPSS LSQEQSEQDA IYQNLTQLKA AVGELSEKSK LQEIYQELTQ LKAAVGELPE KSKLQEIYQE LTRLKAAVGE LPEKSKLQEI YQELTRLKAA VGELPEKSKL QEIYQELTRL KAAVGELPEK SKLQEIYQEL TELKAAVGEL PEKSKLQEIY QELTQLKAAV GELPDQSKQQ QIYQELTDLK TAFERLCRHC PKDWTFFQGN CYFMSNSQRN WHDSVTACQE VRAQLVVIKT AEEQNFLQLQ TSRSNRFSWM GLSDLNQEGT WQWVDGSPLS PSFQRYWNSG EPNNSGNEDC AEFSGSGWND NRCDVDNYWI CKKPAACFRD E<LEPKSCDKT HTCPPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP SRDELTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TPPVLDSDGS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGKHHHHHH>

General References

Gijzen K., et al, (2008) Exp Hematol. 36:860-870.
Johnson TR, et al, (2012) J Virol. 86:1339-1347.
Xia HB, et al, (2020) Oncol Lett. 19:69-76.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain