

## DESCRIPTION

**Source** Mouse myeloma cell line, NS0-derived  
Val73-Lys238, with an N-terminal HA tag  
Accession # Q91ZX1

**N-terminal Sequence Analysis** Tyr (HA tag)

**Predicted Molecular Mass** 20 kDa

## SPECIFICATIONS

**SDS-PAGE** 21-26 kDa, reducing conditions

**Activity** Measured by its binding ability in a functional ELISA.  
When Recombinant Mouse DC-SIGN is coated at 1 µg/mL (100 µL/well), the concentration of Recombinant Mouse ICAM-5 Fc Chimera (Catalog # 1173-M5) that produces 50% optimal binding response is 0.8-4 µg/mL.

**Endotoxin Level** <0.10 EU per 1 µg of the protein by the LAL method.

**Purity** >95%, by SDS-PAGE with silver staining.

**Formulation** Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

## PREPARATION AND STORAGE

**Reconstitution** Reconstitute at 100 µg/mL in sterile PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

Mouse Dendritic Cell-specific ICAM-3 Grabbing Non-integrin (DC-SIGN)/CD209, also known as CD209 Antigen-like Protein A, is a member of the C-type lectin family (1). Mouse DC-SIGN/CD209 is a 33 kDa, 238 amino acid (aa) type II transmembrane protein (2). The extracellular region contains a Ca<sup>2+</sup>-dependent carbohydrate-binding lectin domain (2). In addition to the full-length mouse DC-SIGN/CD209, a second, truncated splice variant has been reported. DC-SIGN/CD209 is not well conserved between mouse and human with the extracellular domain sharing only 63% aa identity. The DC-SIGN/CD209 lectin domain binds mannose oligosaccharides on pathogens including HIV as well as self glycoproteins including ICAMs (2-4). DC-SIGN/CD209 is expressed on dendritic cells (DC) and inflammatory macrophages and contributes to antigen presentation (2, 5, 6).

## References:

1. Liu, W. *et al.* (2004) J. Biol. Chem. **279**:18748.
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4. Anthony, R.M. *et al.* (2008) Proc. Natl. Acad. Sci. USA **105**:19571.
5. Geijtenbeek, T.B. *et al.* (2000) Cell **100**:575.
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