

DESCRIPTION

Source	Mouse myeloma cell line, NS0-derived			
	MD	Human IgG ₁ (Pro100-Lys330)	IEGR	Human DC-SIGNR (Ser73-Glu376) Accession # NP_001138382
	N-terminus		C-terminus	
N-terminal Sequence	Met			
Analysis				
Structure / Form	Disulfide-linked homodimer			
Predicted Molecular Mass	61.4 kDa (monomer)			

SPECIFICATIONS

SDS-PAGE	61-66 kDa, reducing conditions
Activity	Measured by the ability of the immobilized protein to support the adhesion of ICAM-3 expressing CHO Chinese hamster ovary cells. When 5 x 10 ⁴ cells/well are added to rhDC-SIGNR/Fc Chimera coated plates (5 µg/mL with 100 µL/well), approximately 40%-70% of added cells will adhere after 1 hour at room temperature. Optimal dilutions should be determined by each laboratory for each application.
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>80%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Formulation	Lyophilized from a 0.2 µm filtered solution in Tris-Citrate. 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. <ul style="list-style-type: none"> ● 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

Human Dendritic Cell-specific ICAM-3 Grabbing Non-integrin (DC-SIGN)/CD209 is a member of the C-type lectin family (1). The canonical DC-SIGN/CD209 isoform is a 46 kDa, 404 amino acid (aa) type II transmembrane protein (2). The extracellular region contains a Ca²⁺-dependent carbohydrate-binding lectin domain (2). Multiple human DC-SIGN/CD209 splice forms exist, generating both membrane-bound and soluble forms (3). 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 (5, 6).

References:

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