

Active Recombinant Human VCAM1 Protein

Cat. No. VCAM1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VCAM1 (Arg322Gly) Protein (Phe25-Glu698) without tag was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	25-698 a.a.
Description	This gene is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may play a role in the development of atherosclerosis and rheumatoid arthritis. Three alternatively spliced transcripts encoding different isoforms have been described for this gene.
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When 5 x 10 ⁴ cells/well are added to human sVCAM-1 coated plates (10 µg/mL with 100 µL/well), >85% will adhere after 1 hour incubation at room temperature.
Molecular Mass	Predicted Molecular Mass: 74.1 kDa SDS-PAGE: 93-95 kDa, reducing conditions
Endotoxin	<0.10 EU/µg of the protein by the LAL method.

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Purity	>90% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS containing Calcium and Magnesium with Sorbitol.
Reconstitution	Reconstitute at 1 mg/mL in sterile, deionized water.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	VCAM1 vascular cell adhesion molecule 1 [Homo sapiens (human)]
Official Symbol	VCAM1
Synonyms	VCAM1; vascular cell adhesion molecule 1; CD106; INCAM-100; vascular cell adhesion protein 1; CD106 antigen
Gene ID	7412
mRNA Refseq	NM_001078
Protein Refseq	NP_001069
MIM	192225

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UniProt ID

P19320

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