

## Active Recombinant Human VCAM1 Protein, His-tagged, Bioactivity Validated

Cat. No. VCAM1-68H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human VCAM1(25-698aa) fused with His tag at C-terminal was expressed in Insect cells. Bioactivity Validated.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 25-698aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | VCAM1, also known as vascular cell adhesion protein 1 isoform, a member of the immunoglobulin superfamily. It is a cell surface protein expressed by activated endothelial cells and certain leukocytes. VCAM1 expression is induced on endothelial cells during inflammatory bowel disease, atherosclerosis, allograft rejection and asthmatic responses. During the inflammatory adhesion mechanism, activated integrins that rolling leukocytes and attach them firmly to the vascular endothelium. |
| <b>Form</b>             | Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | Measured by the ability of the immobilized protein to support the adhesion of U937 Human histiocytic lymphoma cells. When cells are added to VCAM1 coated plates 10ug/ml. This effect is more to 70%.                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 75.6kDa (685aa) 70-100KDa (SDS-PAGE under reducing conditions)                                                                                                                                                                                                                                                                                                                                                                                                                                         |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                      |                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>     | < 1.0 EU per 1 microgram of protein (determined by LAL method)                                                                                                                    |
| <b>Purity</b>        | > 90% by SDS - PAGE                                                                                                                                                               |
| <b>Storage</b>       | Can be stored at + 4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b> | 0.5mg/ml (determined by Absorbance at 280nm)                                                                                                                                      |

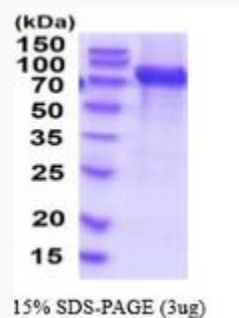
## GENE INFORMATION

|                        |                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | VCAM1 vascular cell adhesion molecule 1 [ Homo sapiens ]                                                                              |
| <b>Official Symbol</b> | VCAM1                                                                                                                                 |
| <b>Synonyms</b>        | VCAM1; vascular cell adhesion molecule 1; vascular cell adhesion protein 1; CD106; CD106 antigen; INCAM-100; MGC99561; DKFZp779G2333; |
| <b>Gene ID</b>         | 7412                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_001078                                                                                                                             |
| <b>Protein Refseq</b>  | NP_001069                                                                                                                             |
| <b>MIM</b>             | 192225                                                                                                                                |
| <b>UniProt ID</b>      | P19320                                                                                                                                |

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