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Recombinant Human VCAM-1
Catalog # PBG10469

Specification

Recombinant Human VCAM-1 - Product Information

Recombinant Human VCAM-1 - Additional Information

Description
VCAM is a 110 kDa cell surface integral membrane glycoprotein that belongs to the Ig-related superfamily of adhesion molecules. The primary function of VCAM-1 is the mediation of leukocyte-endothelial cell adhesion and signal transduction. VCAM-1 may play a vital role in the development several diseases, including atherosclerosis and rheumatoid arthritis. The human VCAM-1 gene codes for a 715 amino acid transmembrane glycoprotein containing a 19 amino acid cytoplasmic domain, a 22 amino acid transmembrane domain, and a 674 amino acid extracellular domain. Recombinant human VCAM-1 is a 74.0kDa glycoprotein comprising the extracellular domain (674 amino acid residues) of VCAM-1. Monomeric glycosylated VCAM-1 migrates at an apparent molecular weight of approximately 90.0kDa by SDS-PAGE analysis under reducing conditions.

BiologicalActivity
Determined by its ability to support the adhesion of human U937 cells. The expected ED₅₀ for this effect is 0.8-1.0 µg/ml.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Recombinant Human VCAM-1 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human VCAM-1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant Human VCAM-1 - Images