

VCAM-1/CD106 Protein, Human (Biotinylated, HEK293, hFc)

Cat. No.:	HY-P78948
Synonyms:	Vascular Cell Adhesion Protein 1; V-CAM 1; VCAM-1; INCAM-100; CD106; VCAM1; L1CAM
Species:	Human
Source:	HEK293
Accession:	P19320 (F25-E697)
Gene ID:	7412
Molecular Weight:	Approximately 101 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	VCAM-1/CD106 is a cell adhesion glycoprotein predominantly expressed on endothelial cells, playing a pivotal role in immune surveillance and inflammation. As a major regulator of leukocyte adhesion to the endothelium, it interacts with various integrins, influencing immune cell interactions. During inflammatory responses, VCAM-1 binds ligands on activated endothelial cells, initiating calcium channel activation and RAC1 small GTPase activation, facilitating leukocyte transendothelial migration. Additionally, VCAM-1 acts as a quality-control checkpoint for entry into the bone marrow, providing a 'don't-eat-me' signal in the context of major histocompatibility complex (MHC) class-I presentation.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA