Recombinant VEGF Co-regulated Chemokine 1 (rh VCC1 / CXCL17)

Synonyms: C-X-C motif chemokine 17, Dendritic cell and monocyte chemokine-like protein, DMC, Dcip1

Introduction: VCC1 (CXCL17) is a secreted molecule with a size and predicted 3-dimensional folding pattern similar to that of chemokines CXCL8/IL8 and CXCL14/BRAK. VCC1 is constitutively generated by airway and intestinal epithelium and induces the chemotaxis of quiescent, but not LPS-activated peripheral blood monocytes and dendritic cells, and it also binds these cells specifically. The expression of VCC1 is increased in endothelial cells when they are induced to form tubes in vitro. VCC1, CXCL1/GRO and CXCL8/IL8 which have roles in angiogenesis, show significantly correlated expression with that of VEGF in primary lung, breast and esophageal tumors. Therefore, VCC1 is suggested to have a role in tumor angiogenesis. The mature Rat CXCL17 shares 82%, 71% amino acid sequence identity with mouse, human CXCL17, respectively. .

Description: Recombinant human VCC1 produced in E.coli is a single, non-glycosylated polypeptide chain containing 98 amino acids and having a molecular mass of 11.5kDa.The VCC1 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4, containing 3% Trehalose. The aliquots of 1μg and 2μg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized CXCL17 in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized VCC1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution VCC1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.

Purity: Greater than 97.0% as determined by: RP-HPLC and SDS-PAGE.

Amino Acid Sequence: SSLNPGVARG HRDRGQASRR WLQEGGQECE CKDWFLRAPR RKFMTVSGLP KKQCPCDHFK GNVKKTRHQR HHRKPNKHSR ACQQFLKQCQ LRSFALPL.

Biological Activity: The ED_{50} as determined by its ability to induce VEGF expression using murine endothelial cells is less than 5.0 μg/ml, corresponding to a specific activity of > 200IU/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

small	5 μg	Cat.N°	11345200
medium	25 μg	Cat.N°	11345204

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