

## CXCL17 Rat

**Description:** CXCL17 Rat Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 97 amino acids and having a molecular mass of 11.5kDa. The CXCL17 is purified by proprietary chromatographic techniques.

**Synonyms:** Protein Cxcl17, Cxcl17, RGD1304717, C-X-C motif chemokine 17, VEGF co-regulated chemokine 1, Vcc1, VCC-1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** SPNQEVARRH GDQHQAPRRW LWEGGQECDC KDWSLRVSKR KTTAVLEPPR KQPCDHHVKG SEKKNNRRQKH HRKSQRPSRT CQQFLKRCQL ASFTLPL.

**Purity:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

CXCL17 protein was lyophilized from a 0.2

**Stability:**

Lyophilized CXCL17 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL17 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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized CXCL17 in sterile 18M-cm H<sub>2</sub>O not less than 100

**Introduction:**

Dendritic cell and monocyte chemokine-like protein (DMC/CXCL17/VEGF-correlated chemokine 1/VCC1), is a secreted molecule with a size and predicted 3-dimensional folding pattern similar to that of chemokines CXCL8/IL8 and CXCL14/BRAK. CXCL17 is constitutively generated by airway and intestinal epithelium. CXCL17 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 CXCL17 is increased in endothelial cells when they are induced to form tubes in vitro. CXCL17, 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, CXCL17 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.

**Biological Activity:**

Measured by its ability to induce VEGF expression in mouse endothelial cells. The ED<sub>50</sub> for this effect is typically 1-5

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