
Product Data Sheet

Product Name: CXCL17 Rat
 Cat. No.: GP21084
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Protein Cxcl17; Cxcl17; RGD1304717; C-X-C motif chemokine 17; VEGF co-regulated chemokine 1; Vcc1; VCC-1.		
Amino Acid Sequence	SPNQEVARRH GDQHQAPRRW LWEGGQECDC KDWSLRVSKR KTTAVLEPPR KQCPCDHVKG SEKNRRQKH HRKSQRPSRT CQQLKRCQL ASFTLPL.		
Solubility	It is recommended to reconstitute the lyophilized CXCL17 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	CXCL17 protein was lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, 300mM NaCl, pH 7.4.		

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

Caution: Product has not been fully validated for medical applications. For research use only.

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Measured by its ability to induce VEGF expression in mouse endothelial cells. The ED50 for this effect is typically 1-5 µg/ml.

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.

Background

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.

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