Recombinant Rat VEGF Co-regulated Chemokine 1/CXCL17

#R00453

Size: 10 μg/100 μg/500 μg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

CXCL17 also named Dendritic Cell and Monocyte Chemokine-like Protein (DMC) and VEGF Co-regulated Chemokine 1 (VCC-1), is a small cytokine belonging to the CXC chemokine family. It is constitutively expressed in the lung and can be detected in trachea, stomach and skeletal muscle. CXCL17 attracts dendritic cells and monocytes and is regulated in tumors. It may be a housekeeping chemokine regulating recruitment of nonactivated blood monocytes and immature dendritic cells into tissues and may play a role in the innate defense against infections. Mature human CXCL17 shares 73 %, 71 % and 64 % amino acid sequence identity with bovine, mouse and rat DMC, respectively.

AA Sequence

SPNQEVARHHGDQHQAPRRWLWEGGQECDCKDW
SLRVSKRKTTAVLEPPRKQCPCDHVKGSEKKNRRQK
HHRKSQRPSRTCQQFLKRCQLASFTLPL

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	Dendritic Cell and Monocyte Chemokine-like Protein, DMC
Species	Rat
Source	Escherichia coli.
Molecular Weight	Approximately 11.5 kDa, a single non-glycosylated polypeptide chain containing 97 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. 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 > 200 IU/mg.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 2 × PBS, pH 7.4.
Endotoxin	Less than 1 EU/μg of rRtVCC-1/CXCL17 as determined by LAL method.