

Recombinant Rat VEGF Co-regulated Chemokine 1/CXCL17

Information

Gene ID	
Accession #	
Alternate Names	Dendritic Cell and Monocyte Chemokine-like Protein, DMC
Source	Escherichia coli.
M.Wt	Approximately 11.5 kDa, a single non-glycosylated polypeptide chain containing 97 amino acids.
AA Sequence	SPNQEVARRH GDQHQAPRRW LWEQGQECDC KDWSLRVSKR KTTAVLEPPR KQCPCDHVKG SEKKNRRQKH HRKSQRPSRT CQQFLKRCQL ASFTLPL
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
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.
Biological Activity	Fully biologically active when compared to standard. The ED 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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10µg	100µg	500µg
Recombinant Rat VEGF Co-regulated Chemokine 1/CXCL17	10µg	100µg	500µg

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- 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

Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rRtVCC-1/CXCL17 as determined by LAL method.

Description

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.

Reference

1. WY Lee, CJ Wang, TY Lin, et al. 2013. Am J Physiol Endocrinol Metab, 304: E32-40
2. A Matsui, H Yokoo, Y Negishi, et al. 2012. PLoS One, 7: e44080
3. AM Burkhardt, KP Tai, JP Flores-Guiterrez, et al. 2012. J Immunol, 188: 6399-406
4. N Hiraoka, R Yamazaki-Itoh, Y Ino, et al. 2011. Gastroenterology, 140: 310-21.

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