



## User Manual

**Mucosae-associated Epithelial Chemokine/CCL28 (MEC/CCL28)  
(Human)**

**Cat. No. HECCP-28011**



**Description:**

Mucosae-associated Epithelial Chemokine (MEC)/CCL28 (CC chemokine ligand 28) is a novel CC chemokine identified by TBLASTN searches of the Human Genome Systems (HGS) and Genbank dbEst database using a human chemokine consensus sequence. Human CCL28 cDNA encodes a 127 amino acid (aa) residue precursor protein with a putative 22 aa residue signal peptide that is cleaved to produce the 105 aa residue mature protein. Human and mouse CCL28 are highly conserved, sharing 83% aa identity in their mature regions. Among CC chemokines, CCL28 shares the most homology with CCL27/CTACK. The mouse CCL28 gene has been mapped to the distal region of chromosome 13. Human and mouse CCL28 RNA expression was found to be highest in normal and pathologic colon with the protein being expressed by epithelial cells. Human CCL28 RNA was also present in normal and asthmatic lung tissues. The receptor for CCL28 has been identified as the CCR10 (GPR2 orphan receptor) which is also the receptor for CCL27/CTACK.

**Source:**

*Escherichia coli*

**Unit:**

5 µg

**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.

**Formulation:**

Lyophilized from a 0.2  $\mu\text{m}$  filtered concentrated solution in 20 mM PB, pH 7.4, 130 mM NaCl.

**Storage:**

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

**Molecular Weight:**

Approximately 12.3 kDa, a single non-glycosylated polypeptide chain containing 108 amino acids.

**Endotoxin:**

Less than 1 EU/ $\mu\text{g}$  of MEC/CCL28 as determined by LAL method.

**Usage:**

This material is offered by Cyagen Biosciences for research, laboratory or further evaluation purposes. FOR RESEARCH USE ONLY. NOT INTENDED FOR ANY ANIMAL OR HUMAN THERAP EUTIC OR DIAGNOSTIC USE.

**Biological Activity:**

The biologically active determined by a chemotaxis bioassay using human lymphocytes is in a concentration range of 1.0-10.0 ng/mL.

**Physical Appearance:**

Sterile filtered white lyophilized (freeze-dried) powder.

**AA Sequence:**

SEAILPIASS CTEVSHHIS RLLERVNMC RIQRADGDCD LAAVILHVKR  
RRICVSPHNH TVKQWMKVQA AKKNGKGNVC HRKKHHGKRN SNRAHQGKHE  
TYGHKTPY

**Purity:**

> 97% by SDS-PAGE and HPLC analyses.

Material Safety Data Sheets (MSDSs) are available upon request.

The Certificate of Analysis (COA), which provides detailed quality control information for each product, is also available at the Cyagen website.

Cyagen Biosciences reserves all rights on the technical documents of its culture products. No part of this document may be reproduced or adapted for other purposes without written permission from Cyagen Biosciences.