

## Mucosa-Associated Epithelial Chemokine/CCL28

CATALOG NUMBER: CME-353-020P, 20 µg

**Synonyms** MEC, CCK1, SCYA28, MGC71902, CCL28, C-C motif chemokine 28, Small-inducible cytokine A28, Mucosae-associated epithelial chemokine, Protein CCK1.

**Introduction** CCL28 belongs to the subfamily of small cytokine CC genes. CCL28 shows chemotactic activity for resting CD4 or CD8 T cells and eosinophils. CCL28 binds to chemokine receptors CCR3 and CCR10. CCL28 is involved in the physiology of extracutaneous epithelial tissues, including diverse mucosal organs. CCL28 mediates mucosal immunity in HIV exposure and infection. CCL28 is involved in the pathogenesis of inflammatory skin diseases. Human CCL28 cDNA encodes a 127 amino acid residue precursor protein with a putative 22 amino acid residue signal peptide that is cleaved to produce the 105 amino acid residue mature protein. Human and mouse CCL28 are highly conserved, sharing 83% amino acid identity in their mature regions. CCL28 shares the most homology with CCL27/CTACK. Human and mouse CCL28 RNA expression was found to be highest in normal and pathological colon with the protein being expressed by epithelial cells. Human CCL28 RNA was also present in normal and asthmatic lung tissues.

**Description** The *E. coli* derived human recombinant CCL28 is a single, non-glycosylated polypeptide chain containing 108 a.a. and having a molecular weight of 12.3 kDa.

### Amino Acid Sequence

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SEAILPIASS CTEVSHHIS RLLERVNMC RIQRADGDCD LAAVILHVKR  
RRICVSPHNH TVKQWMKVQA AKKNGKGNVC HRKKHHGKRN SNRAHQGKHE  
TYGHKTPY
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**Biological Activity** Determined by its ability to chemoattract human lymphocytes using a concentration range of 1.0-10.0 ng/ml.

**Source** *Escherichia coli*

**Formulation** Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM PBS and 150mM NaCl.

**Storage** Although lyophilized CCL28 is stable at room temperature for 3 weeks, it should be stored desiccated below -18°C.

It is recommended to reconstitute the lyophilized CCL28 in sterile H<sub>2</sub>O no less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Upon reconstitution CCL28 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.

**Purity**

> 97% pure by SDS-PAGE and RP-HPLC.