9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

CCL28 Rat

Mucosae-Associated Epithelial Chemokine (CCL28) Rat Recombinant
CHK0015

Product Overview

Name	CCL28 Rat

Description

Mucosae-Associated Epithelial Chemokine (CCL28) Rat Recombinant

Accession (Primary)	Q91Y39

Synonyms

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

Introduction

CCL28 is part of 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 pathologic colon with the protein being expressed by epithelial cells. Human CCL28 RNA was also present in normal and asthmatic lung tissues.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a 0.2 μm filtered concentrated solution in 20mM PB, pH 7.4 and150mM NaCl.

Stability

Lyophilized MEC although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution MEC should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

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Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

SEAILPIASS CCTEVSHHIP RRLLERVNSC SIQRADGDCD LAAVILHVKR RRICVSPHNP TLKRWMSASE MKNGKENLCP RKKQDSGKDR KGHTPRKHGK HGTRRIHGTH DHEAPR.

Biological Activity

Determined by its ability to chemoattract murine lymphocytes using a concentration range of 1.0-10.0 ng/ml.

Solubility

It is recommended to reconstitute the lyophilized MEC in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

CCL28 Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q91Y39)