

Recombinant Human Mucosae-Associated Epithelial Chemokine (rh MEC / CCL28)

Synonyms: CCK1, SCYA28, C-C motif chemokine 28, Small-inducible cytokine A28, Protein CCK1

Introduction: MEC is part of the subfamily of small cytokine CC genes. MEC shows chemotactic activity for resting CD4 or CD8 T cells and eosinophils. MEC binds to chemokine receptors CCR3 and CCR10. It is involved in the physiology of extracutaneous epithelial tissues including diverse mucosal organs. MEC mediates mucosal immunity in HIV exposure and infection and is involved in the pathogenesis of inflammatory skin diseases. Human MEC 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 MEC are highly conserved, sharing 83% amino acid identity in their mature regions. CCL28 shares the most homology with CCL27/CTACK. Human and mouse MEC RNA expression was found to be highest in normal and pathologic colon with the protein being expressed by epithelial cells. Human MEC RNA was also present in normal and asthmatic lung tissues.

Description: Recombinant human MEC produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 108 amino acids and having a molecular mass of 12.3 kDa. The MEC is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM PBS and 150mM NaCl. The samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh MDC in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized MEC although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MEC 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: Greater than 97.0% as determined by RP-HPLC and by SDS-PAGE.

Amino Acid Sequence: SEAILPIASS CTEVSHHIS RLLERVNMC RIQRADGDCD LAAVILHVKR RRICVSPHNH TVKQWMKVQA AKKNGKGNVC HRKKHHGKRN SNRAHQGKHE TYGHKTPY.

Biological Activity : Determined by its ability to chemoattract human lymphocytes using a concentration range of 1.0 - 10.0 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	11344200
<i>medium</i>	20 µg	Cat.N°	11344204

ImmunoTools Excellent Quality - Advantageously priced

Gladiolenweg 2; 26169 Friesoythe; Germany
 phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com