

Recombinant Human Mucosae-associated Epithelial Chemokine/CCL28

Information

Gene ID	56477
Accession #	Q9NRJ3
Alternate Names	CCK1
Source	Escherichia coli.
M.Wt	Approximately 12.4 kDa, a single non-glycosylated polypeptide chain containing 108 amino acids.
AA Sequence	SEAILPIASS CTEVSHHIS RLLERVNMC RIQRADGDCD LAAVILHVKR RRICVSPHNH TVKQWMKVQA AKKNGKGNVC HRKKHHGKRN SNRAHQGKHE TYGHKTPY
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 20 mM PB, pH 7.4, 130 mM NaCl.
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 biological activity determined by a chemotaxis bioassay using human lymphocytes is in a concentration range of 1.0-10.0 ng/ml.
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	5µg	100µg	500µg
Recombinant Human Mucosae-associated Epithelial Chemokine/CCL28	5µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
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- 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 rHuMEC/CCL28 as determined by LAL method.

Description

CCL28 belongs to CC family chemokine, also named mucosae-associated epithelial chemokine (MEC). The CCL28 cDNA is located on Chr.5 in humans, and the mRNA of CCL28 is highly expressed by epithelial cells of diverse tissues including normal and pathological colon, salivary gland, mammary gland, trachea and rectum. The amino acids sequence of human and mouse CCL28 shares 83 % identity, when the protein is processed to be the mature form. CCL28 is signaling through CCR3 and CCR10, and chemotactic for resting CD4, CD8 T-cells and eosinophils.

Reference

1. Wang W, Soto H, Oldham ER, et al. 2000. J Biol Chem, 275: 22313-23
2. Hieshima K, Ohtani H, Shibano M, et al. 2003. J Immunol, 170: 1452-61
3. Eksteen B, Miles A, Curbishley SM, et al. 2006. J Immunol, 177: 593-603
4. Kagami S, Kakinuma T, Saeki H, et al. 2005. J Invest Dermatol, 124: 1088-90.

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