SANTA CRUZ BIOTECHNOLOGY, INC.

CCL27 (hBA-86): sc-4844

BACKGROUND

Cutaneous T cell-attracting chemokine, CCL27 (also designated CTACK, ILC, ALP), is a member of the chemokine superfamily and the subfamily of CC chemokines that binds chemokine receptor CCR10 (GPR-2). Chemokines are a superfamily of small secreted proteins that attract their targets by interacting with G protein-coupled receptors expressed on the migrating cell. CCL27 and CCR10 are involved in skin homeostasis and inflammatory response. CCL27 is found in human keratinocytes and mouse epidermis. CCR10 is expressed by melanocytes, dermal fibroblasts, and dermal microvascular endothelial cells and in T cells as well as in skin-derived Langerhans cells. CCL27 is involved in the preferential migration and recruitment of cutaneous lymphocyte-associated antigen $(CLA)^+$ memory lymphocytes.

REFERENCES

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SOURCE

CCL27 (hBA-86) is produced in *E. coli* as 9.8 kDa biologically active protein corresponding to 86 amino acids representing full length CCL27 of human origin.

PRODUCT

CCL27 (hBA-86) is purified from bacterial lysates (>98%); supplied as 20 µg purified protein.

BIOLOGICAL ACTIVITY

CCL27 (hBA-86) is biologically active as determined by its ability to chemoattract CXCR3 transfected cells using a concentration range of 10-100 ng/ml.

RECONSTITUTION

In order to avoid freeze/thaw damaging of the active protein, dilute protein when first used to desired working concentration. Either a sterile filtered standard buffer (such as 50mM TRIS or 1X PBS) or water can be used for the dilution. Store any thawed aliquot in refrigeration at 2° C to 8° C for up to four weeks, and any frozen aliquot at -20° C to -80° C for up to one year. It is recommended that frozen aliquots be given an amount of standard cryopreservative (such as Ethylene Glycol or Glycerol 5-20% v/v), and refrigerated samples be given an amount of carrier protein (such as heat inactivated FBS or BSA to 0.1% v/v) or non-ionic detergent (such as Triton X-100 or Tween 20 to 0.005% v/v), to aid stability during storage.

STORAGE

Store desiccated at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.