

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant RANTES/CCL5, Human(HEK 293-expressed)

Catalog Number: BK0329-25µg

Source: HEK 293

Quantity: 25µg

Description:

Chemokine (C-C motif) ligand 5(CCL5), also known as RANTES (Regulated upon activation, Normal T cell Expressed and presumable Secreted) is a CC-chemokine that can signal through the CCR1, CCR3, CCR5 and US28 (cytomegalovirus receptor) receptors. RANTES is chemotactic for T cells, eosinophils, and basophils, and plays an active role in recruiting leukocytes in inflammatory sites. With the help of specific cytokines (i.e., IL-2 and IFN- γ) that are released by T cells, RANTES induces the proliferation and activation of certain natural-killer (NK) cells to form CHAK (CC-Chemokine-activated killer) cells. RANTES is also an HIV-suppressive factor released from CD8+ T cells. This chemokine has been localized to chromosome 17 in humans. It has the capability to inhibit certain strains of HIV-1, HIV-2 and simian immunodeficiency virus (SIV). Recombinant human RANTES/CCL5 produced in HEK293 cells is a single polypeptide chain containing 68 amino acids. A fully biologically active molecule, rhRANTES/CCL5 has a molecular mass of 8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

8 kDa, observed by reducing SDS-PAGE.

Purity:

> 98% as analyzed by SDS-PAGE.

Biological Activity:

The EC50 value of human RANTES/CCL5 on Ca²⁺ mobilization assay in CHO-K1/G α 15/hCCR1 cells

(human G α 15 and human CCR1 stably expressed in CHO-K1 cells) is less than 0.2 µg/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

SPYSSDTPCCFAY-
IARPLPRAHIKEYFYTSKGKCSNPAV-
VVFTRKNRQVCANPEKKWVREYINSLEMS

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant human RANTES/CCL5 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, human RANTES/CCL5 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C

Usage:

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