

## Active Recombinant Human CCL5 protein

Cat. No. CCL5-81H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human CCL5 was expressed in HEK293.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | HEK293  |
| <b>ProteinLength</b>    | 68 amino acids  |
| <b>Description</b>      | 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- $\gamma$ ) 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). |
| <b>Form</b>             | Lyophilized after extensive dialysis against PBS.   |
| <b>Bio-activity</b>     | The EC <sub>50</sub> value of human RANTES/CCL5 on Ca <sup>2+</sup> mobilization assay in CHO-K1/G $\alpha$ 15/hCCR1 cells (human G $\alpha$ 15 and human CCR1 stably expressed in CHO-K1 cells) is less than 0.2   |

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|                       |  |
|-----------------------|--|
|                       | µg/ml.   |
| <b>Molecular Mass</b> | 8 kDa, observed by reducing SDS-PAGE.  |
| <b>AA Sequence</b>    | SPYSSDTTPC CFAYIARPLP RAHIKEYFYT SGKCSNPAVV FVTRKNRQVC<br>ANPEKKWVRE YINSLEMS  |
| <b>Endotoxin</b>      | < 0.2 EU/µg, determined by LAL method.   |
| <b>Purity</b>         | > 98% as analyzed by SDS-PAGE.   |
| <b>Storage</b>        | Lyophilized recombinant human RANTES/CCL5 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human RANTES/CCL5 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade |
| <b>Reconstitution</b> | Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.   |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | CCL5 chemokine (C-C motif) ligand 5 [ Homo sapiens ]   |
| <b>Official Symbol</b> | CCL5   |
| <b>Synonyms</b>        | CCL5; chemokine (C-C motif) ligand 5; D17S136E, SCYA5, small inducible cytokine A5 (RANTES); C-C motif chemokine 5; beta chemokine RANTES; MGC17164; RANTES; regulated upon activation; normally T expressed; and presumably secreted; SIS delta; SISd; small inducible cytokine subfamily A (Cys Cys); member 5; T cell specific protein p288; T cell specific RANTES protein; TCP228; eoCP; SIS-delta; beta-chemokine RANTES; small-inducible cytokine A5; T-cell specific protein p288; t cell-specific protein P228; T-cell-specific protein RANTES; eosinophil chemotactic cytokine; small inducible cytokine A5 (RANTES); small inducible cytokine subfamily A |

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(Cys-Cys), member 5; regulated upon activation, normally T-expressed, and presumably secreted; SCYA5; D17S136E;

**Gene ID** [6352](#)

**mRNA Refseq** [NM\\_002985](#)

**Protein Refseq** [NP\\_002976](#)

**MIM** [187011](#)

**UniProt ID** [P13501](#)

**Chromosome Location** 17q11.2-q12

**Pathway** Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem;

**Function** CCR1 chemokine receptor binding; CCR1 chemokine receptor binding; CCR1 chemokine receptor binding; CCR4 chemokine receptor binding; CCR5 chemokine receptor binding; chemoattractant activity; chemokine activity; chemokine activity; chemokine receptor antagonist activity; chemokine receptor binding; heparin binding; phosphatidylinositol phospholipase C activity; phospholipase activator activity; protein homodimerization activity; protein kinase activity; protein self-association; receptor signaling protein tyrosine kinase activator activity;

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