

# Active Recombinant Mouse Chemokine (C-C motif) Ligand 5, HlgG1 Fc-tagged, mutant

Cat. No. CCL5-511H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

The extracellular domain of human CCL5 (AAH08600.1)(Ser24-Ser91) is fused to the N-terminus of the Fc region of a mutant human IgG1 was expressed in CHO cell.

### Species

Human

### Source

CHO

### ProteinLength

24-91 a.a.

### Description

This gene is one of several chemokine genes clustered on the q-arm of chromosome 17. Chemokines form a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of the N-terminal cysteine residues of the mature peptide. This chemokine, a member of the CC subfamily, functions as a chemoattractant for blood monocytes, memory T helper cells and eosinophils. It causes the release of histamine from basophils and activates eosinophils. This cytokine is one of the major HIV-suppressive factors produced by CD8+ cells. It functions as one of the natural ligands for the chemokine receptor chemokine (C-C motif) receptor 5 (CCR5), and it suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor. Alternative splicing results in multiple transcript variants that encode different isoforms

### Form

Lyophilized from 0.2µm-filtered solution in PBS.

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<b>Bio-activity</b>	Measured by its ability to chemoattract 2-day cultured human monocytes.
<b>Molecular Mass</b>	34KDa (monomer)
<b>AA Sequence</b>	Ser24-Ser91
<b>Endotoxin</b>	<0.06 eu/μg="" as="" determined="" by="" lal="">
<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.
<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Reconstitution</b>	Reconstitute at 100μg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CCL5 chemokine (C-C motif) ligand 5 [ Homo sapiens ]</a>
<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 antag

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