

# RANTES/CCL5, Human

Catalog # PVGS1264

## Product Information

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**Primary Accession  
Sequence**

[P13501](#)  
Ser<sup>24</sup>-Ser<sup>91</sup>

**Purity**

> 95% as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level**

## Additional Information

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**Gene ID**

6352

**Other Names**

C-C motif chemokine 5, EoCP, Eosinophil chemotactic cytokine, SIS-delta, Small-inducible cytokine A5, T cell-specific protein P228, TCP228, T-cell-specific protein RANTES, RANTES(3-68), RANTES(4-68), CCL5, D17S136E, SCYA5

**Target Background**

RANTES/CCL5, Human

## Protein Information

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**Name**

CCL5

**Synonyms**

D17S136E, SCYA5

**Function**

Chemoattractant for blood monocytes, memory T-helper cells and eosinophils. Causes the release of histamine from basophils and activates eosinophils. May activate several chemokine receptors including CCR1, CCR3, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant RANTES protein induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form RANTES(3-68) acts as a natural chemotaxis inhibitor and is a more potent inhibitor of HIV-1-infection. The second processed form RANTES(4-68) exhibits reduced chemotactic and HIV-suppressive activity compared with RANTES(1-68) and RANTES(3-68) (PubMed:[1380064](#), PubMed:[15923218](#), PubMed:[16791620](#), PubMed:[8525373](#), PubMed:[9516414](#)). May also be an agonist of the G protein-coupled receptor GPR75, stimulating inositol trisphosphate production and calcium mobilization through its activation. Together with GPR75, may play a role in neuron survival through activation of a downstream signaling pathway involving the PI3, Akt and MAP kinases. By activating GPR75 may also play a role in insulin secretion by islet cells (PubMed:[23979485](#)).

**Cellular Location**

Secreted.

<b>Tissue Location</b>	Expressed in the follicular fluid (at protein level). T-cell and macrophage specific.
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