



## Product Datasheet

<b>Product Name</b>	Recombinant Rat Rantes (CCL5)
<b>Cata No</b>	CB501262
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Small inducible cytokine A5, CCL5, T-cell-specific RANTES protein, SIS-delta, T cell-specific protein P228, TCP228, chemokine (C-C motif) ligand 5, SISd, SCYA5, RANTES, D17S136E, MGC17164.

### Description

Regulated upon Activation, Normal T-cell Expressed, and Secreted or RANTES is an 8 kDa protein classified as a chemotactic cytokine or chemokine. It has recently been renamed CCL5. RANTES is chemotactic for T cells, eosinophils and basophils and plays an active role in recruiting leukocytes into inflammatory sites. With the help of particular cytokines (i.e. IL-2 and IFN- $\gamma$ ) that are released by T cells, RANTES also induces the proliferation and activation of certain natural killer (NK) cells to form CHAK (CC-Chemokine-activated killer) cells. It is also a HIV-suppressive factor released from CD8+ T cells. This chemokine has been localized to chromosome 17 in humans. Rantes Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 68 amino acids and having a molecular mass of 7876 Dalton.

The Rat Rantes is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Biological Activity

The activity is determined by the ability to chemoattract total human lymphocytes and murine

T-cells at a concentration between 1-10ng/ml

### Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### Formulation

Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

### Reconstitution

It is recommended to reconstitute the lyophilized Rantes in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized Rat Rantes although stable at room temperature for 3 weeks, should be stored desiccated below -18 $^{\circ}$ C. Upon reconstitution Rat CCL5 should be stored at 4 $^{\circ}$ C between 2-7 days and for future use below -18 $^{\circ}$ C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

### Sequence

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SPYGSDTTPC CFAYLSLALP RAHVKEYFYT  
SSKCSNLAVV FVTRRNQVC ANPEKKWVQE

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