



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

# Certificate of Analysis and Data Sheet Recombinant Mouse Rantes (CCL5)

**Catalog No.**  
228-11358

**Source**  
*Escherichia Coli.*

## Synonyms

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.

## Introduction

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.

## Description

Rantes Mouse 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 Mouse Rantes is purified by proprietary chromatographic techniques.

## Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

## Formulation

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

## Purity

Greater than 95.0% as determined by  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

## Amino Acid Sequence

SPYGSDTTPC CFAYLSLALP RAHVKEYFYT SSKCSNLAVV FVTRNRQVC  
ANPEKKWVQE YINYLEMS.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### ***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.

### ***Solubility***

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 Mouse Rantes although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse CCL5 should be stored at 4°C between 2-7 days and for future use below -18°C.

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

**Please prevent freeze-thaw cycles.**

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