

## Recombinant Rat Rantes (rr RANTES / CCL5)

**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, 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. 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:** Recombinant rat Rantes produced in E.Coli is a single, non-glycosylated polypeptide chain containing 68 amino acids and having a molecular mass of 7876 Dalton. The Rantes is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a concentrated (1mg/ml) solution in water containing no additives. The aliquotes of 1 $\mu$ g contain Trehalose 5% (w/vol) for better recovery

**Stability:** Lyophilized rr Rantes although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rr RANTES 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.**

**Purity:** Greater than 95.0% as determined by RP-HPLC and by SDS-PAGE.

**Amino Acid:** SPYGSDDTPC CFAYLSLALP RAHVKEYFYT SSKCSNLAVV FVTRRRNRQVC ANPEKKWVQE YINYLEMS

**Biological Activity:** The activity is determined by the ability to chemoattract total human lymphocytes and murine T-cells at a concentration between 1-10 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 $\mu$ g	Cat.N°	13343190
<i>medium</i>	20 $\mu$ g	Cat.N°	13343194

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