

## Recombinant Mouse Rantes (CCL5)

**Synonyms:** Small inducible cytokine A5, 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. 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:** Recombinant mouse Rantes produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 68 amino acids and having a molecular mass of 7.8 kDa. rm Rantes is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

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

**Formulation:** Lyophilized from 0.2 $\mu$ m filtered solution in 2x PBS, pH 7.4  
The sample size of 1 $\mu$ g contains Trehalose 5% (w/vol) for better recovery

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

**Stability:** Lyophilized rm Rantes, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm 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 97.0% as determined by RP-HPLC and by SDS-PAGE.

**Amino acid Sequence:** SPYGSDTTPC CFAYLSLALP RAHVKEYFYT SSKCSNLAVV FVTRRNRQVC  
ANPEKKWVQE YINYLEMS.

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

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|               |             |        |          |
|---------------|-------------|--------|----------|
| <i>small</i>  | 5 $\mu$ g   | Cat.N° | 12343190 |
| <i>medium</i> | 20 $\mu$ g  | Cat.N° | 12343194 |
| <i>large</i>  | 100 $\mu$ g | Cat.N° | 12343196 |

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