

Recombinant Mouse Rantes (CCL5)

Synonyms: Small inducible cytokine A5, T-cell-specific RANTES protein, SIS- delta, T-cell- specific protein P228, TCP228, SISd, SCYA5,

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- γ) 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 μ m filtered solution in 2x PBS, pH 7.4
The sample size of 1 μ g contains Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm Rantes in sterile H₂O not less than 100 μ 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: SPYGSDDTPC 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

This material is offered for **research 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 μ g	Cat.N°	12343190
<i>medium</i>	20 μ g	Cat.N°	12343194
<i>large</i>	100 μ g	Cat.N°	12343196

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