
Product Data Sheet

Product Name: Rantes Rhesus Macaque

Cat. No.: GP21207

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Synonyms C-C motif chemokine 5; Small-inducible cytokine A5; T-cell-specific protein RANTES; CCL5.

Amino Acid Sequence SPHASDTTPC CFAYIARPLP RAHIKEYFYT SGKCSNPAVV FVTRKNRQVC ANPEKKWVRE YINSLEMS.

Solubility It is recommended to reconstitute the lyophilized Rantes in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Formulation Rantes protein was lyophilized from a 0.2μm filtered concentrated solution in 20mM PB pH 6.0 and 500mM NaCl.

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-?) 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.

Biological Activity

The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 1.0-10 ng/ml.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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

Background

Rantes Rhesus Macaque Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 68 amino acids and having a molecular mass of 7.8kDa. The CCL5 is purified by proprietary chromatographic techniques.

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