
Product Data Sheet

Product Name: Rantes Rat
 Cat. No.: GP21206
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	SPYGSDDTPC CFAYLSLALP RAHVKEYFYT SSKCSNLAVV FVTRRRNRQVC ANPEKKWVQE YINYLEMS.		
Solubility	It is recommended to reconstitute the lyophilized Rantes in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.		

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 activity is determined by the ability to chemoattract total human lymphocytes and murine T-cells at a concentration between 1-10ng/ml corresponding to a Specific Activity of 100,000-1,000,000IU/mg.

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

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Stability

Lyophilized Rat Rantes although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Rat 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 Rat 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 Rat Rantes is purified by proprietary chromatographic techniques.

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