
Product Data Sheet

Product Name: Rantes Human
 Cat. No.: GP21203
 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	SPYSSDTTPC CFAYIARPLP RAHIKEYFYT SGKCSNPAVV FVTRKNRQVC ANPEKKWVRE YINSLEMS.		
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 0.2μm filtered concentrated solution in 50mM NaAc, pH 5.0, 100mM 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. Rantes 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-g) 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. Rantes is also an HIV-suppressive factor released from CD8+ T cells. The Ranteschemokine has been localized to chromosome 17 in humans.

Biological Activity

The Rantesactivity is determined by the chemoattract of human blood monocytes 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 Rantes although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution 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.

Background

Rantes Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 68 amino acids and having a molecular mass of 7809.2 Dalton. The Rantes is purified by proprietary chromatographic techniques.

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