

Overview

Synonyms	RANTES/CCL5, Human
Description	Chemokine (C-C motif) ligand 5(CCL5), also known as RANTES (Regulated upon activation, Normal T cell Expressed and presumable Secreted) is a CC-chemokine that can signal through the CCR1, CCR3, CCR5 and US28 (cytomegalovirus receptor) receptors. RANTES is chemotactic for T cells, eosinophils, and basophils, and plays an active role in recruiting leukocytes in inflammatory sites. With the help of specific cytokines (i.e., IL-2 and IFN- γ) that are released by T cells, RANTES 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. This chemokine has been localized to chromosome 17 in humans. It has the capability to inhibit certain strains of HIV-1, HIV-2 and simian immunodeficiency virus (SIV). Recombinant human RANTES/CCL5 produced in <i>HEK293</i> cells is a single polypeptide chain containing 68 amino acids. A fully biologically active molecule, rhRANTES/CCL5 has a molecular mass of 8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	P13501
Species	Human
Source	<i>HEK 293</i>
Biological Activity	The EC ₅₀ value of human RANTES/CCL5 on Ca ²⁺ mobilization assay in CHO-K1/G \pm 15/hCCR1 cells (human G \pm 15 and human CCR1 stably expressed in CHO-K1 cells) is less than 0.2 μ g/ml.
Sequence	SPYSSDTTPC CFAYIARPLP RAHIKEYFYT SGKCSNPAVV FVTRKNRQVC ANPEKKWVRE YINSLEMS

Properties

Measured Molecular Weight	8 kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.
Endotoxin Level	< 0.2 EU/ μ g, determined by LAL method.
Storage	Lyophilized recombinant human RANTES/CCL5 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human RANTES/CCL5 should be stable up to 1 week at 4°C or up to 2 months at -20°C
Note	For research use only

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