Product Datasheet

RecombinantRANTES/CCL5,Human(HEK293-expressed) (orb1494625)

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 HEK293 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 at GenScript.
Endotoxins	< 0.2 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant human RANTES/CCL5 remains stable up to 6 months at -80°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
Application notes	Reconstituted in ddH2O or PBS at 100 μg/ml.
Protein Sequence	SPYSSDTTPCCFAYIARPLPRAHIKEYFYTSGKCSNPAVVFVTRKNRQVCANPEKKWVREYINSLEMS
Purity	> 98% as analyzed by SDS-PAGE.

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Source	HEK 293
MW	8 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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