

CCL5 Protein, Human, Recombinant (HEK293)

General Information

Synonyms:	RANTES;SISd;CCL-5;TCP228;C-C motif chemokine ligand 5;SIS-delta;SCYA5;eoCP;D17S136E
Protein Construction:	Ser24-Ser91
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P13501
Molecular Weight:	~8 kDa (Reducing conditions)

QC Testing

Biological Activity:	The EC 50 value of human RANTES/CCL5 on Ca ²⁺ mobilization assay in CHO-K1/Gα15/hCCR1 cells (human Gα15 and human CCR1 stably expressed in CHO-K1 cells) is less than 0.2 µg/ml.
Purity:	> 98% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/µg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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