Active Recombinant Human CCL5 protein

Cat. No. CCL5-81H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCL5 was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	68 amino acids
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).
Form	Lyophilized after extensive dialysis against PBS.
Bio-activity	The EC50 value of human RANTES/CCL5 on Ca2+ mobilization assay in CHO-K1/Gα15/hCCR1 cells (human Gα15 and human CCR1 stably expressed in CHO-K1 cells) is less than 0.2

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	μg/ml.
Molecular Mass	8 kDa, observed by reducing SDS-PAGE.
AA Sequence	SPYSSDTTPC CFAYIARPLP RAHIKEYFYT SGKCSNPAVV FVTRKNRQVC ANPEKKWVRE YINSLEMS
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 98% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant human RANTES/CCL5 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human RANTES/CCL5 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/ml.

GENE INFORMATION

Gene Name	CCL5 chemokine (C-C motif) ligand 5 [Homo sapiens]
Official Symbol	CCL5
Synonyms	CCL5; chemokine (C-C motif) ligand 5; D17S136E, SCYA5, small inducible cytokine A5 (RANTES); C-C motif chemokine 5; beta chemokine RANTES; MGC17164; RANTES; regulated upon activation; normally T expressed; and presumably secreted; SIS delta; SISd; small inducible cytokine subfamily A (Cys Cys); member 5; T cell specific protein p288; T cell specific RANTES protein; TCP228; eoCP; SIS-delta; beta-chemokine RANTES; small-inducible cytokine A5; T-cell specific protein p288; t cell-specific protein P228; T-cell-specific protein RANTES; eosinophil chemotactic cytokine; small inducible cytokine A5 (RANTES); small inducible cytokine subfamily A

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	(Cys-Cys), member 5; regulated upon activation, normally T-expressed, and presumably secreted; SCYA5; D17S136E;
Gene ID	6352
mRNA Refseq	NM_002985
Protein Refseq	NP_002976
MIM	187011
UniProt ID	P13501
Chromosome Location	17q11.2-q12
Pathway	Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem;
Function	CCR1 chemokine receptor binding; CCR1 chemokine receptor binding; CCR1 chemokine receptor binding; CCR4 chemokine receptor binding; CCR5 chemokine receptor binding; chemoattractant activity; chemokine activity; chemokine activity; chemokine receptor antagonist activity; chemokine receptor binding; heparin binding; phosphatidylinositol phospholipase C activity; phospholipase activator activity; protein homodimerization activity; protein kinase activity; protein self-association; receptor signaling protein tyrosine kinase activator activity;

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