Active Human CCL5

Cat. No. CCL5-114H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	It is a synthetic Protein
Species	Human
Description	RANTES (acronym for Regulated upon Activation, Normal T cell Expressed and presumably Secreted), was initially discovered by subtractive hybridization as a transcript expressed in T cells but not B cells. Eosinophil-chemotactic activities released by thrombinstimulated human platelets have also been purified and found to be identical to RANTES. Besides T cells and platelets, RANTES has been reported to be produced by renal tubular epithelium, synovial fibroblasts and selected tumor cells. Human RANTES cDNA encodes a highly basic 91 amino acid residue precursor polypeptide with a 23 amino acid residue hydrophobic signal peptide that is cleaved to generate the 68 amino acid residue mature protein. Murine RANTES has also been cloned. Human and mouse RANTES share approximately 85% sequence homology at the amino acid level and exhibit cross-species activities.
Form	Lyophilized
Bio-activity	Activity of this protein measured by its monocyte chemotactic activity and by its ability to chemoattract human CCR5 transfected mouse BaF/3cells. ED50's for these activitites are typically 0.01-0.03 μg/ml and 1-5 ng/ml respectively.
Applications	Activity Assay
Storage	Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

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Reconstitution	Recommended reconstitution in sterile phosphate buffered saline which contains at least 0.1% human or bovine serum albumin to prepare a stocksolution of no less than 20 µg/ml and vortex thoroughly.

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 (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

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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 antag

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