

Active Recombinant Mouse Chemokine (C-C motif) Ligand 5

Cat. No. Ccl5-259M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rantes Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 68 amino acids and having a molecular mass of 7876 Dalton. The Mouse Rantes is purified by proprietary chromatographic techniques.
Species	Mouse
Source	Mouse
Description	Regulated upon Activation, Normal T-cell Expressed, and Secreted or RANTES is an 8 kDa protein classified as a chemotactic cytokine or chemokine. It has recently been renamed CCL5. RANTES is chemotactic for T cells, eosinophils and basophils and plays an active role in recruiting leukocytes into inflammatory sites. With the help of particular cytokines (i.e. IL-2 and IFN- γ) that are released by T cells, RANTES also induces the proliferation and activation of certain natural killer (NK) cells to form CHAK (CC-Chemokine-activated killer) cells. It is also a HIV-suppressive factor released from CD8+ T cells. This chemokine has been localized to chromosome 17 in humans.
Form	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.
Purity	Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Bio-activity	The activity is determined by the ability to chemoattract total human lymphocytes and murine T-cells at a concentration between 1-10ng/ml.

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Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized Rantes in sterile 18Mμ-cm H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	SPYGSDTTPC CFAYLSLALP RAHVKEYFYT SSKCSNLAVV FVTRRNRQVC ANPEKKWVQE YINYLEMS.
Storage	Lyophilized Mouse Rantes although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse CCL5 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Pathways	Chagas disease (American trypanosomiasis); Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; G alpha (i) signalling events; GPCR downstream signaling;

GENE INFORMATION

Gene Name	Ccl5 chemokine (C-C motif) ligand 5 [<i>Mus musculus</i>]
Official Symbol	Ccl5
Synonyms	Ccl5; chemokine (C-C motif) ligand 5; SISd; Scya5; RANTES; TCP228; MuRantes; C-C motif chemokine 5; SIS-delta; OTTMUSP00000000943; small inducible cytokine A5; small-inducible cytokine A5; T-cell-specific protein RANTES; D17S136E; OTTHUMP00000197106; SCYA5; beta-chemokine RANTES; MGC17164; eoCP; regulated upon activation, normally T-expressed, and presumably secreted; small inducible cytokine A5(RANTES); small inducible cytokine subfamily A (Cys-Cys),

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member 5; Eosinophil chemotactic cytokine; T-cell specific protein p288; Small-inducible cytokine A5; EoCP

Gene ID 20304

mRNA Refseq NM_013653

Protein Refseq NP_038681

UniProt ID P30882

Chromosome Location 11 C; 11 47.4 cM

Function CCR1 chemokine receptor binding; CCR5 chemokine receptor binding; chemoattractant activity; chemokine activity; chemokine receptor antagonist activity; chemokine receptor binding; cytokine activity; heparin binding; protein homodimerization activity; protein self-association; receptor signaling protein tyrosine kinase activator activity

PDB rendering based on 1pmi.

