

Recombinant Human CCL5

Catalog # FL098

Product Specifications

Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Purity	> 97% by SDS-PAGE or HPLC.
Endotoxin	< 0.01 EU/μg of rHuRANTES/CCL5 protein as determined by LAL method.
Expression System	Expressed in E. coli.
Species	Human
Tag	Tag free.
Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 1.0-10 ng/ml.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.
Accession #	P13501 Ser24-Ser91
Amino acid sequence	SPYSSDTPCCFAYIARPLPRAHIKEYFYTSKGKCSNPVVFVTRKNRQVCANPEKKWVREYINSLEMS
Molecular weight	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 68 amino acids.
Synonyms	SIS-delta, Small-inducible cytokine A5, T-cell-specific protein RANTES
Stability & Storage	Shipped on wet ice. For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
Precautions	Recombinant Human CCL5 is for research use only and not for use in diagnostic or therapeutic procedures.

Background

Chemokine (C-C motif) ligand 5 (CCL5) also known as RANTES is classified as a chemotactic cytokine or chemokine. CCL5 is chemotactic for T cells, eosinophils, and basophils, and plays an active role in recruiting leukocytes into inflammatory sites which has been reported to be produced by renal tubular epithelium, synovial fibroblasts and selected tumor cells. It also induces the proliferation and activation of certain natural-killer cells to form CHAK cells. Recombinant human CCL5 shares 84 % a.a. sequence identity with murine and rat CCL5, respectively. Recombinant Human RANTES (CCL5) is a 7.8kDa protein containing 68 amino acid residues including the four highly conserved cysteine residues present in the CC chemokines.

