

## Recombinant Human Regulation upon Activation Normal T cell Express Sequence/CCL5

### Information

|                                |  |
|--------------------------------|--|
| <b>Gene ID</b>                 | 6352   |
| <b>Accession #</b>             | P13501   |
| <b>Alternate Names</b>         | SIS-delta, Small-inducible cytokine A5, T-cell-specific protein RANTES   |
| <b>Source</b>                  | Escherichia coli.  |
| <b>M.Wt</b>                    | Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 68 amino acids.  |
| <b>AA Sequence</b>             | SPYSSDTTPC CFAYIARPLP RAHIKEYFYT SGKCSNPAVV FVTRKNRQVC ANPEKKWVRE YINSLEMS   |
| <b>Appearance</b>              | Sterile Filtered White lyophilized (freeze-dried) powder.  |
| <b>Stability &amp; Storage</b> | Use a manual defrost freezer and avoid repeated freeze-thaw cycles<br>- 12 months from date of receipt, -20 to -70 °C as supplied<br>- 1 month, 2 to 8 °C under sterile conditions after reconstitution<br>- 3 months, -20 to -70 °C under sterile conditions after reconstitution   |
| <b>Formulation</b>             | Lyophilized from a 0.2 µm filtered concentrated solution in 20mM PB, pH 7.4, 100 mM NaCl.  |
| <b>Reconstitution</b>          | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 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. |
| <b>Biological Activity</b>     | 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.   |
| <b>Shipping Condition</b>      | Gel pack.  |
| <b>Handling</b>                | Centrifuge the vial prior to opening.  |
| <b>Usage</b>                   | For Research Use Only! Not to be used in humans.   |

### Components and Storage

| Components   | 5µg | 100µg | 500µg |
|--|-----|-------|-------|
| Recombinant Human Regulation upon Activation Normal T cell Express Sequence/CCL5 | 5µg | 100µg | 500µg |

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## Quality Control

|           |  |
|-----------|--|
| Purity    | > 98 % by SDS-PAGE and HPLC analyses.                                  |
| Endotoxin | Less than 1 EU/ $\mu$ g of rHuRANTES/CCL5 as determined by LAL method. |

## Description

Chemokine (C-C motif) ligand 5 (CCL5) also known as RANTES is classified as a chemotactic cytokine or chemokine. It is encoded by the CCL5 gene in humans. 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 contains 68 amino acids and it shares 84 % a.a. sequence identity with murine and rat CCL5, respectively.

## Reference

1. Hedrick JA, Helms A, Vicari A, et al. 1998. Blood, 91: 4242-7
2. Nomiyama H, Fukuda S, Iio M, et al. 1999. J Interferon Cytokine Res, 19: 227-34
3. Youn BS, Zhang S, Broxmeyer HE, et al. 1998. Biochem Biophys Res Commun, 247: 217-22
4. Kim IS, Jang SW, Sung HJ, et al. 2005. FEBS Lett, 579: 6044-8
5. Francica G, Petrolati A, Di Stasio E, et al. 2012. Acta Radiol, 53: 394-400.

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