

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

#R00380

Size: 5 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

SPYSSDTPCCFAYIARPLPRAHIKEYFYTSGKCSNPA
VVFVTRKNRQVCANPEKKWVREYINSLEMS

Reconstitution

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.

Product Specification

Synonyms	SIS-delta, Small-inducible cytokine A5, T-cell-specific protein RANTES
Accession	P13501
GeneID	6352
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 68 amino acids.
Purity	> 98 % by SDS-PAGE and HPLC analyses.
Biological 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.
Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20mM PB, pH 7.4, 100 mM NaCl.
Endotoxin	Less than 1 EU/µg of rHuRANTES/CCL5 as determined by LAL method.