Specifications and Uses:

Alternate Names: CCL5

Description:
Regulated Upon Activation Normal T cell Express Sequence (RANTES), also called CCL5, is a chemokine produced by T cells three to five days after activation. RANTES is a promiscuous chemokine that signals through several G protein-coupled receptors, CCR5, CCR3, CCR1 and US28 (a viral receptor encoded by human CMV).   The main function of RANTES is to recruit immune cells to the site of inflammation. Recombinant rat RANTES is a non-glycosylated protein, containing 68 amino acids, with a molecular weight of 7.9 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:
Recombinant rat RANTES is lyophilized with no additives.
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 97%) determined by:
HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:
Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:
The activity is determined by the ability to chemoattract primary human T cells and THP-1 cells at 1-10 ng/mL.

AA Sequence:
SPYGSDTTPC CFAYLSLALP RAHVKEYFYT SSKCSNLAVV FVTRRNRQVC ANPEKKWVQE YINYLEMS

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!