

TECHNICAL DATA SHEET

Recombinant Human CCL5 (RANTES) (Carrier-free)

Catalog Number: 21-8969

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human CCL5 (RANTES) (Carrier-free)

DESCRIPTION

RANTES is a CC-chemokine that can signal through the CCR1, CCR3, CCR5 and US28 (cytomegalovirus receptor) receptors. It is a chemoattractant towards monocytes, memory T cells (CD4+/CD45RO), basophils, and eosinophils. RANTES also has the capability to inhibit certain strains of HIV-1, HIV-2 and simian immunodeficiency virus (SIV).

MOLECULAR MASS

Recombinant Human RANTES is a 7.8 kDa protein containing 68 amino acid residues.

AMINO ACID SEQUENCE

SPYSSDTPPC CFAYIARPLP RAHIKEYFYT SGKCSNPAVV FVTRKNRQVC ANPEKKWVRE YINSLEMS

SOURCE

E. Coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Cow, Hamster, Monkey, Mouse, Rat

BIOACTIVITY

Assessed chemoattraction assays with human blood monocytes using a concentration range of 1.0-10.0 ng/ml.

RESEARCH AREAS

AIDS/HIV; Angiogenesis/Cardiovascular; Chemotaxis; Immune System; Inflammation; Neurobiology; Wound Healing; Allergy; Transplantation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Maghazachi AA, A Al-Aoukaty and TJ Schall 1996 Eur J Immunol 26: 315–319. Schall TJ, J Jongstra, BJ Dyer, J Jorgensen, C Clayberger, MM Davis and AM Krensky 1988 J Immunol 141: 1018–1025. Song A, YF Chen, K Hamatrakoln, TA Storm and AM Krensky 1999 Immunity 10(1): 93–103. Song A, T Nikolcheva and AM Krensky 2000 Immunol Rev 177: 236–245. Cocchi F, AL DeVico, A Garzino-Demo, SK Arya, RC Gallo and P Lusso Science 270: 1811–1815.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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