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# Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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Datasheet for 009-001-C20-0020

# rHuman RANTES (CCL5) Protein

## Overview

| | |
|---|---|
| **Description:** | Human RANTES (CCL5) Recombinant Protein - 009-001-C20-0020 |
| **Item No.:** | 009-001-C20-0020 |
| **Size:** | 20 µg |
| **Applications:** | Cellular Assay |
| **Origin:** | Human |
| **Expressed in:** | E. coli |

## Product Details

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| **Background:** | 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 human RANTES is a non-glycosylated protein, containing 68 amino acids, with a molecular weight of 7.8 kDa. |
| **Synonyms:** | EoCP, Eosinophil chemotactic cytokine, SIS-delta, Small-inducible cytokine A5, T cell-specific protein P228 (TCP228), T-cell-specific protein RANTES |
| **Species of Origin:** | Human |
| **Expressed in:** | E. coli |
| **Type:** | Recombinant Protein |
| **Low Endotoxin:** | Yes |

## Target Details

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| **Gene Name:** | CCL5 |
| **Purity/Specificity:** | RANTES (CCL5) purity was determined to be greater than 98% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE. |
| **Relevant Links:** | • UniProtKB - P13501 |

## Application Details

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| **Suggested Applications:** | Cellular Assay (Based on references) |
| **Application Note:** | RANTES Recombinant Protein has been tested by biologic activity and is suitable as a control for polyclonal or monoclonal anti-RANTES in immunological assays. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **Other:** | Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein. Biologic Activity: The activity is determined by the ability to chemoattract human monocytes, neutrophils, THP-1 or primary T cells at 1-8 ng/mL. |

## Formulation

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| **Physical State:** | Lyophilized |
| **Buffer:** | 0.1% Trifluoroacetic acid |
| **Preservative:** | None |
| **Stabilizer:** | None |
| **Reconstitution Volume:** | 20µl (20-200µl) |
| **Reconstitution Buffer:** | Restore with deionized water (or equivalent) |

## Shipping & Handling

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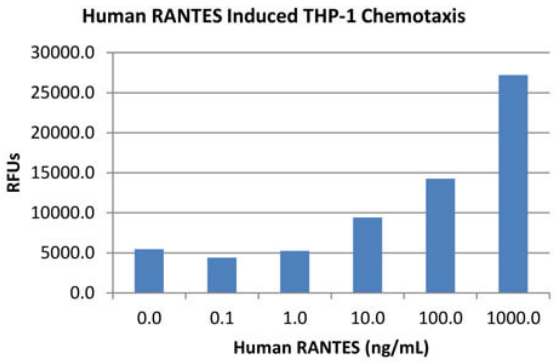
|---|---|
| **Shipping Condition:** | Ambient |
| **Storage Condition:** | Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature. |
| **Expiration:** | Expiration date is six (6) months from date of receipt. |

## Images




**SDS-PAGE**

Bioactivity of Human RANTES (CCL5) Recombinant Protein. Human THP-1 cells were allowed to migrate to Human RANTES at (0, 0.1, 1, 10, 100 and 1000 ng/mL). After 45 minutes, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. Significant increases in migration over basal levels were seen in response to Human RANTES detectable starting at 10 ng/mL. These results are similar to results expected from primary human monocytes.

## Disclaimer