

## Product datasheet

# Recombinant rat RANTES protein ab9784

### Overview

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<b>Product name</b>	Recombinant rat RANTES protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">P50231</a>
<b>Species</b>	Rat
<b>Sequence</b>	SPYGSDTTPCCFAYLSLALPRAHVKEYFYTSSKCSNLA VVFVTRRNRQVC ANPEKKWVQEYINYLEMS
<b>Molecular weight</b>	10 kDa
<b>Amino acids</b>	25 to 92

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab9784** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Endotoxin level</b>	< 0.100 Eu/µg
<b>Form</b>	Lyophilised
<b>Additional notes</b>	The biological activity of this product is determined by its ability to chemoattract rat peritoneal macrophages using a concentration of 50.0-100.0 ng/ml.

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
	n/a
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

### General Info

<b>Function</b>	Chemoattractant for blood monocytes, memory T-helper cells and eosinophils. Causes the release of histamine from basophils and activates eosinophils. Binds to CCR1, CCR3, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant RANTES protein induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form RANTES(3-68) acts as a natural chemotaxis inhibitor and is a more potent inhibitor of HIV-1-infection. The second processed form RANTES(4-68) exhibits reduced chemotactic and HIV-suppressive activity compared with RANTES(1-68) and RANTES(3-68) and is generated by an unidentified enzyme associated with monocytes and neutrophils.
<b>Tissue specificity</b>	T-cell and macrophage specific.
<b>Sequence similarities</b>	Belongs to the intercrine beta (chemokine CC) family.
<b>Post-translational modifications</b>	N-terminal processed form RANTES(3-68) is produced by proteolytic cleavage, probably by DPP4, after secretion from peripheral blood leukocytes and cultured sarcoma cells. The identity of the O-linked saccharides at Ser-27 and Ser-28 are not reported in PubMed:1380064. They are assigned by similarity.
<b>Cellular localization</b>	Secreted.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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